03161000 SOUTH FORK NEW RIVER NEAR JEFFERSON, NC

LOCATION.--Lat 36°23'36", long 81°24'25", Ashe County, Hydrologic Unit 05050001, on right bank 600 ft upstream from bridge on State Highways 16 and 88, 0.2 mi downstream of Bear Creek, and 4 mi southeast of Jefferson.

DRAINAGE AREA.--205 mi^2.

PERIOD OF RECORD.--October 1924 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 1275: 1925-26(M), 1928-30(M), 1931-32, 1933-35(M), 1941-42(m), 1944(m). WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,657.04 ft above NGVD of 1929. Prior to Oct. 14, 1934, nonrecording gage on bridge 400 ft downstream at same datum. Oct. 14, 1934, to Mar. 25, 1935, nonrecording gage at present site and datum. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum discharge for period of record, from rating curve extended above 14,000 ft^3/s on basis of slope-area measurement of peak flow. Minimum discharge for period of record result of freezeup.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 15, 1916, reached a stage of 18.0 ft, from floodmarks witnessed by local resident; discharge, 35,200 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	813	449	e650	440	420	433	661	546	334	344	341	421
2	729	432	568	427	402	390	1,160	495	740	333	326	327
3	674	423	499	417	452	396	1,180	471	718	445	306	295
4	639	497	472	412	538	393	934	450	551	353	304	272
5	598	596	453	402	455	484	795	438	461	344	297	262
6	570	478	449	395	436	665	705	438	426	335	296	255
7	547	449	494	387	424	537	654	424	589	518	326	248
8	526	433	465	399	423	557	707	411	444	1,190	351	237
9	511	415	477	396	434	589	804	398	467	537	376	229
10	505	401	717	375	449	501	660	402	592	424	443	223
11	491	397	587	366	438	471	604	453	588	413	355	223
12	479	509	555	362	408	466	578	417	496	499	308	220
13	736	711	506	378	402	453	628	391	713	444	305	217
14	622	516	476	2,550	513	465	815	407	826	512	301	211
15	522	466	451	1,160	515	476	678	518	602	538	286	207
16	479	447	450	770	460	451	597	474	511	1,320	297	204
17	455	430	436	650	440	506	558	412	459	819	270	206
18	441	e466	417	573	410	473	536	391	423	583	432	208
19	458	408	411	e540	392	490	516	381	416	709	556	201
20	503	402	e406	e505	389	464	504	410	531	733	380	197
21	457	392	e402	496	413	440	483	424	451	630	325	192
22	442	e429	e398	486	421	423	493	376	409	522	293	189
23	440	414	1,140	461	389	671	579	376	379	466	277	191
24	451	694	1,200	e452	413	798	516	394	364	426	270	192
25	454	1,230	711	e448	448	581	499	358	352	396	263	201
26	425	727	600	e438	403	529	479	349	345	373	256	215
27	427	597	548	427	385	505	479	340	342	356	251	232
28	494	597	498	402	433	1,450	470	336	343	360	254	230
29	530	541	480	399	---	1,310	508	329	356	390	251	206
30	524	e562	470	433	---	900	683	324	366	401	380	202
31	482	---	455	441	---	741	---	319	---	361	853	---
TOTAL	16,424	15,508	16,841	16,787	12,105	18,008	19,463	12,652	14,594	16,074	10,529	6,913
MEAN	530	517	543	542	432	581	649	408	486	519	340	230
MAX	813	1,230	1,200	2,550	538	1,450	1,180	546	826	1,320	853	421
MIN	425	392	398	362	385	390	470	319	334	333	251	189
CFSM	2.58	2.52	2.65	2.64	2.11	2.83	3.16	1.99	2.37	2.53	1.66	1.12
IN.	2.98	2.81	3.06	3.05	2.20	3.27	3.53	2.30	2.65	2.92	1.91	1.25

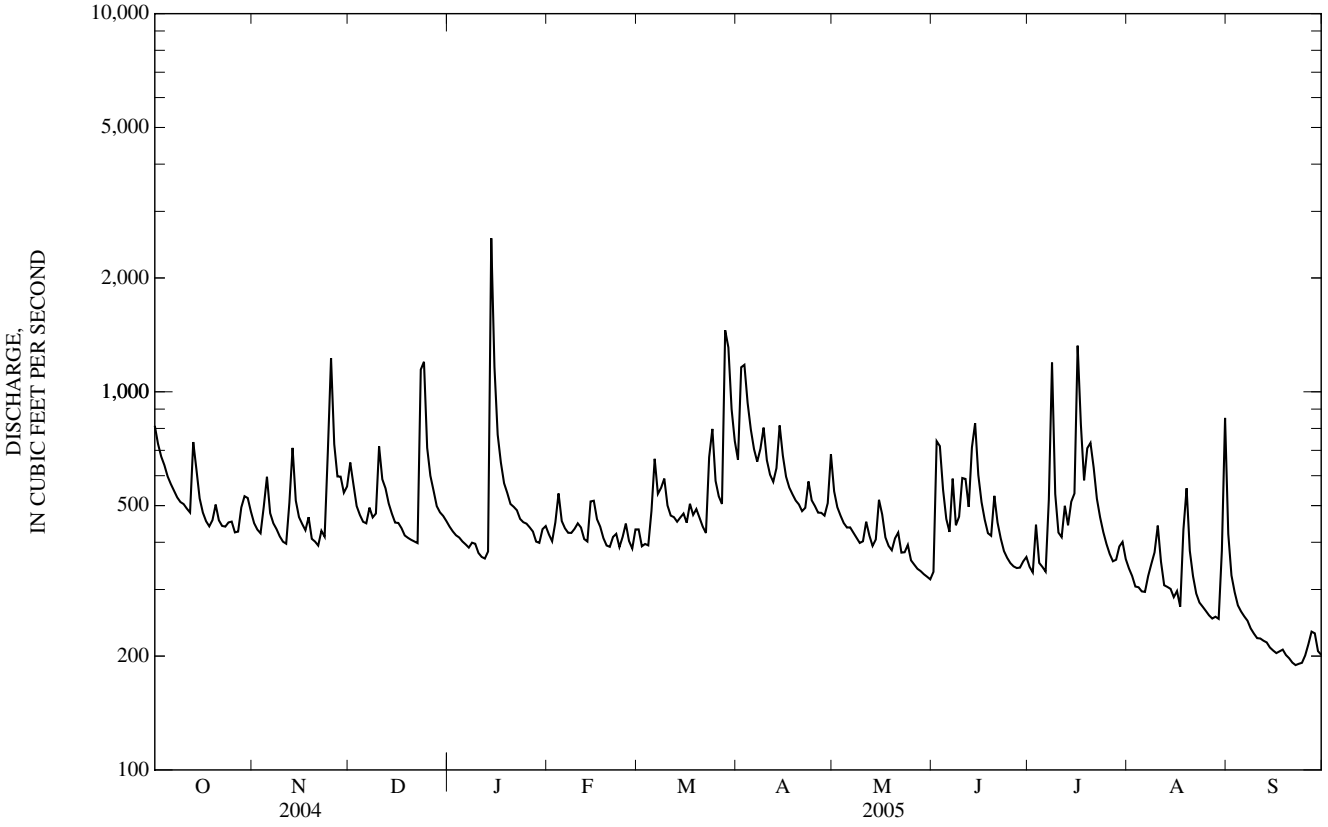
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2005, BY WATER YEAR (WY)

MEAN	354	404	406	467	512	582	563	453	391	334	351	336
MAX	901	1,889	797	1,346	1,173	1,316	1,350	1,052	1,036	904	2,613	1,556
(WY)	(1991)	(1978)	(1958)	(1995)	(1998)	(1979)	(1983)	(1973)	(1992)	(1941)	(1940)	(2004)
MIN	111	124	146	140	188	222	236	220	158	111	93.7	99.5
(WY)	(2001)	(1932)	(1934)	(1940)	(2001)	(1988)	(1986)	(2001)	(1988)	(1930)	(1925)	(1954)

03161000 SOUTH FORK NEW RIVER NEAR JEFFERSON, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1925 - 2005	
ANNUAL TOTAL	187,777		175,898			
ANNUAL MEAN	513		482		429	
HIGHEST ANNUAL MEAN					669	1949
LOWEST ANNUAL MEAN					215	2002
HIGHEST DAILY MEAN	10,500	Sep 8	2,550	Jan 14	27,700	Aug 14, 1940
LOWEST DAILY MEAN	173	Aug 20	189	Sep 22	65	Sep 9, 1925
ANNUAL SEVEN-DAY MINIMUM	184	Aug 17	195	Sep 19	72	Aug 21, 1925
MAXIMUM PEAK FLOW			4,050	Jan 14	52,800*	Aug 14, 1940
MAXIMUM PEAK STAGE			6.46	Jan 14	22.50	Aug 14, 1940
INSTANTANEOUS LOW FLOW			185	Sep 22	52*	Dec 24, 1943
ANNUAL RUNOFF (CFSM)	2.50		2.35		2.09	
ANNUAL RUNOFF (INCHES)	34.07		31.92		28.40	
10 PERCENT EXCEEDS	673		698		705	
50 PERCENT EXCEEDS	415		447		345	
90 PERCENT EXCEEDS	250		290		168	

* See REMARKS.
e Estimated.



03439000 FRENCH BROAD RIVER AT ROSMAN, NC

LOCATION.--Lat 35°08'36", long 82°49'29", Transylvania County, Hydrologic Unit 06010105, on left bank 50 ft upstream from bridge on U.S. Highway 178 at Rosman, 1.0 mi upstream from East Fork, and at mile 216.4.

DRAINAGE AREA.--67.9 mi^2.

PERIOD OF RECORD.--May 1907 to June 1909, October 1935 to current year. Monthly discharge only for some periods published in WSP 1306.

REVISED RECORDS.--WSP 823: Drainage area. WSP 1306: 1908(M). WSP 1910: 1936(M), 1938(M), 1939-40, 1942-43, WDR NC-93-1: 1993(M).

GAGE.--Water-stage recorder. Datum of gage is 2,173.83 ft above NGVD of 1929. Prior to June 30, 1909, nonrecording gage at site 500 ft downstream at different datum. Jan. 1, 1936, to July 6, 1937, nonrecording gage at present site and datum. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Minimum discharge for period of record result of freezeup. Minimum daily discharge occurred several days in Sept. and Oct. 1954. Minimum discharge for current water year also occurred Sept. 25, 26.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 1916 reached a stage of 13.9 ft, from floodmarks.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	388	181	411	276	219	243	332	238	225	327	351	309
2	360	187	311	269	216	220	558	225	498	314	320	268
3	338	261	289	261	283	213	423	223	317	289	303	242
4	320	592	266	256	251	208	379	214	270	340	291	227
5	303	331	248	249	233	211	351	211	240	291	285	217
6	288	265	296	247	225	208	325	208	252	264	288	203
7	278	238	357	238	219	208	331	200	249	852	337	196
8	268	217	314	256	218	260	447	196	311	532	352	190
9	259	206	494	235	218	225	368	192	288	401	427	184
10	254	199	473	230	212	214	335	213	329	384	422	178
11	246	197	378	227	202	207	314	209	339	650	351	174
12	242	462	328	223	199	200	314	195	1,420	1,260	321	170
13	251	320	301	358	201	195	384	193	1,910	988	323	166
14	234	265	279	597	222	210	362	197	800	641	340	162
15	228	242	264	348	210	195	322	210	566	612	309	158
16	220	229	255	310	200	215	305	195	463	531	287	172
17	213	219	248	284	193	214	290	186	394	457	302	164
18	215	211	241	268	188	205	278	181	360	447	323	154
19	237	204	233	260	185	209	268	176	347	582	364	151
20	218	199	221	254	200	198	258	266	355	634	312	149
21	206	190	218	247	291	190	254	227	327	596	282	146
22	202	187	223	239	276	216	270	202	e302	527	270	145
23	204	199	1,160	230	234	357	280	190	e280	470	263	143
24	202	556	518	223	246	265	252	180	258	415	260	141
25	196	435	417	224	229	239	242	176	244	379	245	137
26	191	319	371	221	218	225	238	169	241	357	232	162
27	189	300	336	214	213	258	237	161	344	353	227	148
28	191	318	319	208	276	1,080	226	159	298	355	226	143
29	213	269	308	237	---	481	223	158	351	481	228	150
30	192	255	296	259	---	381	266	159	331	399	689	143
31	186	---	285	230	---	361	---	155	---	370	442	---
TOTAL	7,532	8,253	10,658	8,178	6,277	8,311	9,432	6,064	12,909	15,498	9,972	5,292
MEAN	243	275	344	264	224	268	314	196	430	500	322	176
MAX	388	592	1,160	597	291	1,080	558	266	1,910	1,260	689	309
MIN	186	181	218	208	185	190	223	155	225	264	226	137
CFSM	3.58	4.05	5.06	3.89	3.30	3.95	4.63	2.88	6.34	7.36	4.74	2.60
IN.	4.13	4.52	5.84	4.48	3.44	4.55	5.17	3.32	7.07	8.49	5.46	2.90

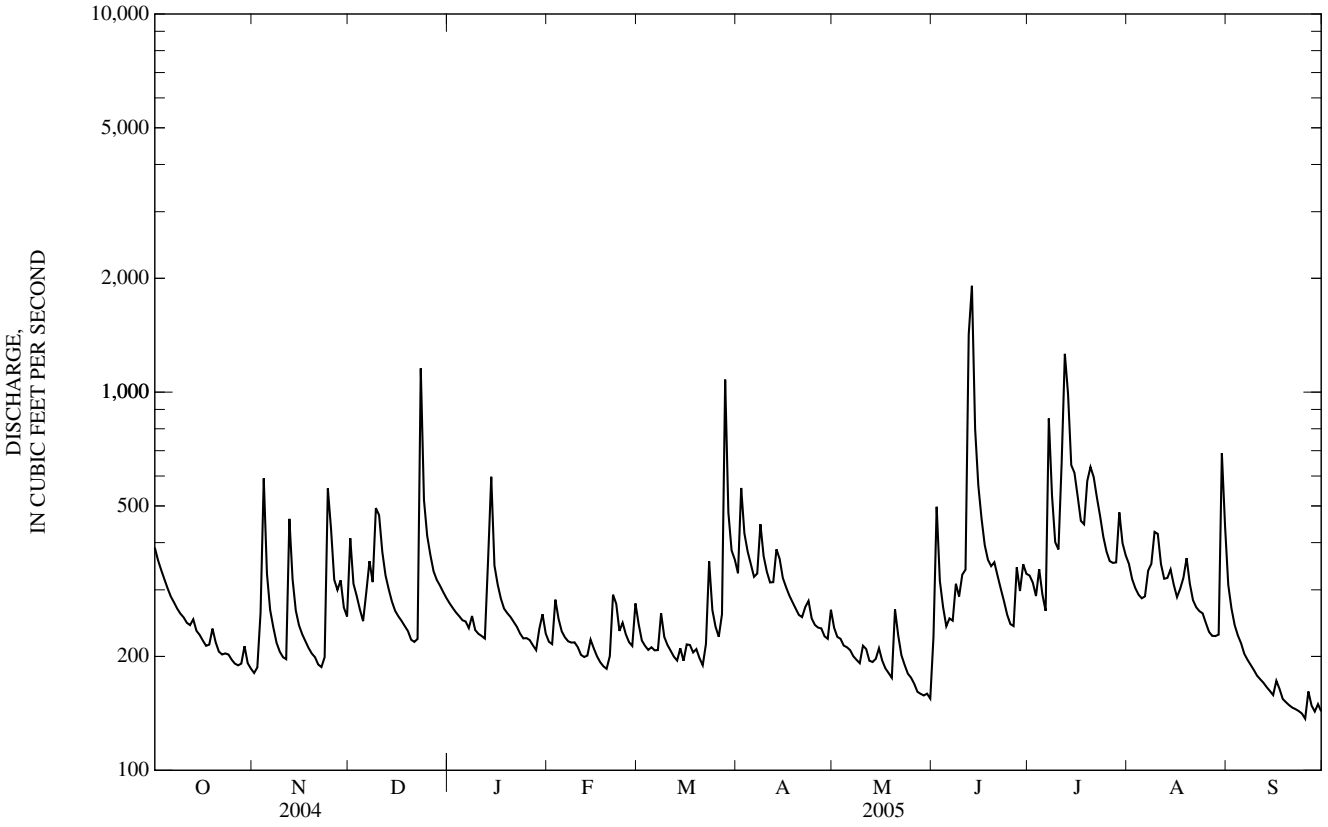
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1908 - 2005,@ BY WATER YEAR (WY)

MEAN	176	205	246	280	314	332	320	260	220	180	186	174
MAX	734	635	489	672	648	787	582	551	882	624	543	848
(WY)	(1965)	(1993)	(1993)	(1937)	(1939)	(1979)	(1983)	(1909)	(1909)	(1989)	(1994)	(2004)
MIN	42.2	56.7	72.6	72.0	130	135	108	114	79.8	75.8	65.3	43.6
(WY)	(1955)	(1955)	(1940)	(1981)	(1963)	(1988)	(1986)	(1941)	(1988)	(1986)	(1954)	(1954)

03439000 FRENCH BROAD RIVER AT ROSMAN, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1908 - 2005[@]	
ANNUAL TOTAL	103,637		108,376			
ANNUAL MEAN	283		297		239	
HIGHEST ANNUAL MEAN					370	1949
LOWEST ANNUAL MEAN					136	1981
HIGHEST DAILY MEAN	5,330	Sep 8	1,910	Jun 13	5,630	Oct 4, 1964
LOWEST DAILY MEAN	118	Jul 22	137	Sep 25	37*	Sep 25, 1954
ANNUAL SEVEN-DAY MINIMUM	131	Aug 17	145	Sep 19	38	Sep 23, 1954
MAXIMUM PEAK FLOW			3,420	Jun 12	13,500	Oct 4, 1964
MAXIMUM PEAK STAGE			7.90	Jun 12	14.95	Oct 4, 1964
INSTANTANEOUS LOW FLOW			135*	Sep 24	23*	Jan 3, 1940
ANNUAL RUNOFF (CFSM)	4.17		4.37		3.52	
ANNUAL RUNOFF (INCHES)	56.78		59.38		47.83	
10 PERCENT EXCEEDS	413		438		413	
50 PERCENT EXCEEDS	208		252		191	
90 PERCENT EXCEEDS	144		187		88	

[@] See PERIOD OF RECORD.
* See REMARKS.
e Estimated.



03441000 DAVIDSON RIVER NEAR BREVARD, NC

LOCATION.--Lat 35°16'23", long 82°42'21", Transylvania County, Hydrologic Unit 06010105, on right bank 150 ft upstream of bridge on State Highway 280, 2.1 mi downstream of Avery Creek, 3.3 mi northeast of Brevard, and at mile 2.2.

DRAINAGE AREA.--40.4 mi^2.

PERIOD OF RECORD.--October 1920 to September 1990, October 1993 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 823: Drainage Area. WSP 1336: 1921, 1922 (M), 1923, 1924-25(M), 1926, 1927(M), 1929-32(M).

GAGE.--Water-stage recorder. Datum of gage is 2,115.13 ft above NGVD of 1929 (levels by Tennesse Valley Authority). Prior to May 17, 1934, nonrecording gage at site 50 ft downstream at same datum. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1876 reached a stage of 11.9 ft, from studies by Tennessee Valley Authority.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	296	105	249	144	110	129	175	124	138	208	191	204
2	269	105	192	139	108	116	276	115	411	181	165	168
3	250	132	173	135	172	114	205	110	e240	192	152	149
4	229	444	159	131	145	112	180	107	e190	213	143	136
5	212	230	149	128	130	117	163	106	e160	167	156	127
6	201	169	176	125	125	113	152	106	e140	145	150	121
7	191	148	206	120	120	112	158	102	129	620	180	115
8	181	136	184	126	119	175	254	99	171	371	223	110
9	175	127	294	117	117	136	197	96	173	251	200	106
10	169	121	297	114	113	126	174	112	171	216	217	101
11	161	120	235	112	106	119	160	110	235	457	186	98
12	157	311	202	110	105	113	166	98	938	708	158	95
13	167	213	182	214	109	109	209	96	1,260	443	147	91
14	150	171	166	407	120	122	220	95	561	339	142	88
15	144	153	156	206	112	108	186	104	367	322	132	86
16	137	143	149	174	108	124	167	96	284	325	148	93
17	131	135	144	154	103	123	155	91	238	263	172	88
18	129	129	139	142	99	114	147	89	218	233	155	81
19	140	125	134	138	97	110	139	103	211	316	152	79
20	129	122	126	135	103	106	133	137	184	327	140	77
21	124	117	125	131	169	103	133	109	174	284	130	76
22	122	114	124	128	150	114	137	99	160	273	150	75
23	126	132	673	e120	127	205	140	93	147	250	152	73
24	120	410	311	e115	140	150	125	89	138	214	135	71
25	115	318	242	115	125	135	119	85	131	196	124	70
26	112	220	209	115	118	126	120	83	132	178	118	82
27	110	199	187	110	114	143	120	80	167	170	114	74
28	115	202	174	105	150	735	113	80	145	181	117	70
29	133	172	164	115	---	297	112	78	142	250	123	75
30	113	161	157	130	---	221	147	77	136	203	549	69
31	108	---	150	116	---	195	---	75	---	184	307	---
TOTAL	4,916	5,384	6,228	4,371	3,414	4,822	4,882	3,044	7,891	8,680	5,328	2,948
MEAN	159	179	201	141	122	156	163	98.2	263	280	172	98.3
MAX	296	444	673	407	172	735	276	137	1,260	708	549	204
MIN	108	105	124	105	97	103	112	75	129	145	114	69
CFSM	3.93	4.44	4.97	3.49	3.02	3.85	4.03	2.43	6.51	6.93	4.25	2.43
IN.	4.53	4.96	5.73	4.02	3.14	4.44	4.50	2.80	7.27	7.99	4.91	2.71

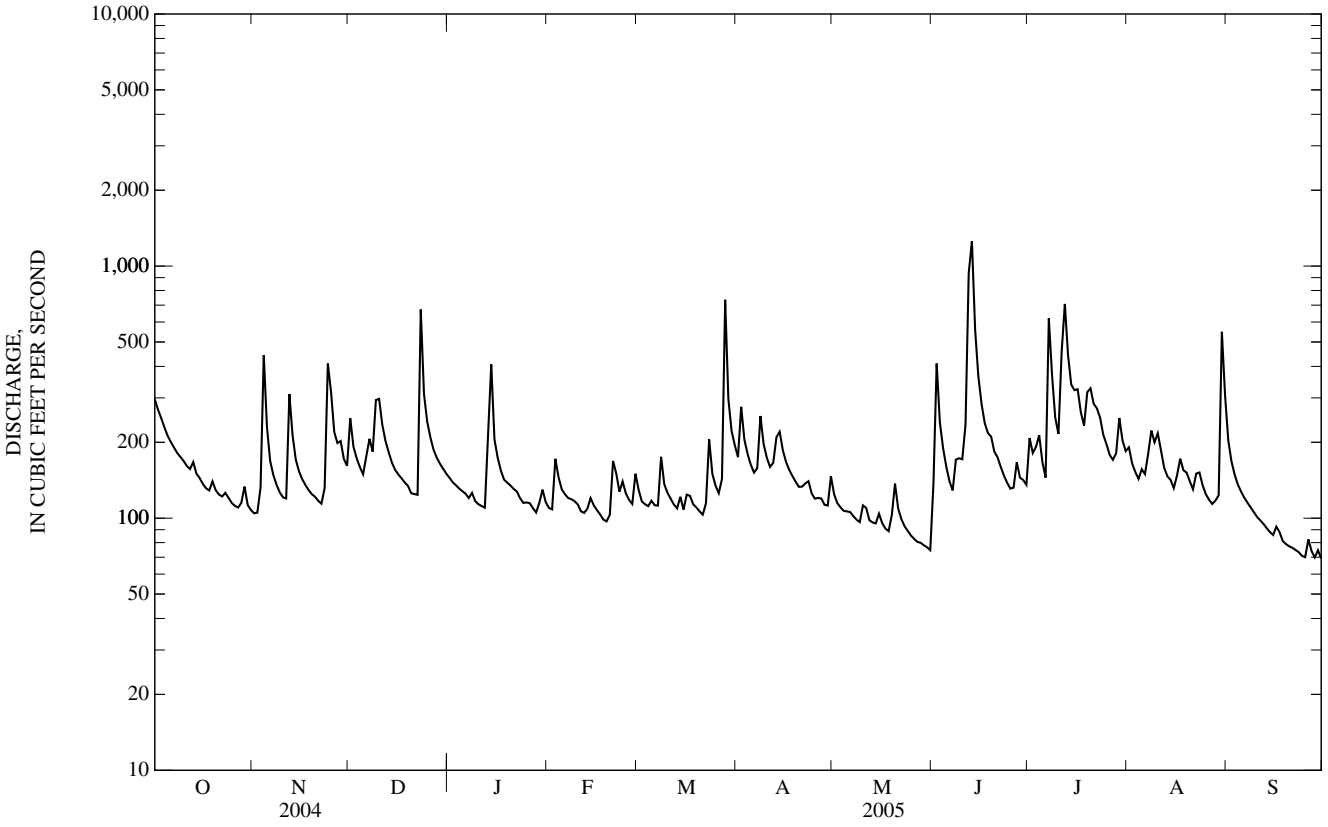
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2005,@ BY WATER YEAR (WY)

MEAN	95.1	107	131	154	167	183	172	141	113	94.6	98.7	95.6
MAX	379	362	323	374	363	466	349	293	263	285	404	667
(WY)	(1965)	(1980)	(1933)	(1937)	(1939)	(1929)	(1957)	(1923)	(2005)	(1989)	(1928)	(2004)
MIN	18.2	24.5	31.7	37.8	66.5	74.1	57.7	54.6	37.9	37.2	24.0	17.5
(WY)	(1955)	(1955)	(1940)	(1956)	(1941)	(1988)	(1986)	(1941)	(1988)	(1986)	(1925)	(1954)

03441000 DAVIDSON RIVER NEAR BREVARD, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1921 - 2005[@]	
ANNUAL TOTAL	64,284		61,908			
ANNUAL MEAN	176		170		129	
HIGHEST ANNUAL MEAN					208	1949
LOWEST ANNUAL MEAN					70.6	1988
HIGHEST DAILY MEAN	3,940	Sep 8	1,260	Jun 13	3,940	Sep 8, 2004
LOWEST DAILY MEAN	51	Jul 24	69	Sep 30	14	Sep 28, 1954
ANNUAL SEVEN-DAY MINIMUM	59	Jul 18	73	Sep 24	15	Sep 25, 1954
MAXIMUM PEAK FLOW			2,020	Jun 12	e8,400	Aug 15, 1928
MAXIMUM PEAK STAGE			5.01	Jun 12	12.08	Aug 17, 1994
INSTANTANEOUS LOW FLOW			66	Sep 30	13	Oct 11, 1954
ANNUAL RUNOFF (CFSM)	4.35		4.20		3.20	
ANNUAL RUNOFF (INCHES)	59.19		57.00		43.43	
10 PERCENT EXCEEDS	282		252		229	
50 PERCENT EXCEEDS	115		139		101	
90 PERCENT EXCEEDS	74		98		42	

[@] See PERIOD OF RECORD.
e Estimated.



03443000 FRENCH BROAD RIVER AT BLANTYRE, NC

LOCATION.--Lat 35°17'57", long 82°37'26", Transylvania County, Hydrologic Unit 06010105, on left bank 40 ft upstream from bridge on Secondary Road 1503, 700 ft east of railroad at Blantyre, 3.5 mi downstream of Little River, and at mile 183.7.

DRAINAGE AREA.--296 mi^2.

PERIOD OF RECORD.--October 1920 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 923: 1921-23, 1929, 1933, 1935-36(M), 1938, 1940.

GAGE.--Water-stage recorder. Datum of gage is 2,060.32 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Prior to July 5, 1930, nonrecording gage at same site and datum. Satellite and telephone telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Considerable diurnal fluctuation at low flow caused by power plant about 8 mi upstream from station. Maximum gage height for period of record, 25.81 ft, from floodmarks.

EXTREMES OUTSIDE PERIOD OF RECORD.--Since at least 1791, maximum stage 27.1 ft, July 16, 1916, from floodmarks (from studies by Tennessee Valley Authority).

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,290	840	1,500	1,140	920	1,110	1,420	974	663	1,420	1,440	1,520
2	1,910	836	1,460	1,110	886	936	1,680	848	2,100	1,570	1,270	1,190
3	1,740	1,130	1,250	1,080	1,070	886	1,690	816	1,890	1,280	1,170	1,060
4	1,620	1,990	1,170	1,070	1,140	858	1,410	789	1,270	1,330	1,120	970
5	1,530	2,420	1,090	1,050	1,010	852	1,280	774	1,080	1,250	1,090	913
6	1,440	1,430	1,130	1,030	952	843	1,200	767	948	1,100	1,140	864
7	1,390	1,200	1,520	1,010	916	820	1,150	745	1,070	2,330	1,140	824
8	1,330	1,090	1,460	1,040	897	977	1,460	726	1,090	3,730	1,450	792
9	1,290	1,010	1,710	1,010	883	944	1,420	709	1,180	2,520	1,370	761
10	1,260	968	2,780	958	869	862	1,250	711	1,030	2,070	1,460	731
11	1,220	939	2,100	934	829	829	1,160	845	1,390	2,110	1,360	707
12	1,190	1,590	1,630	918	809	803	1,120	730	1,770	3,540	1,150	688
13	1,250	2,030	1,430	948	805	777	1,380	702	3,970	3,930	1,090	669
14	1,150	1,390	1,290	2,370	840	833	1,420	687	4,790	3,790	1,070	651
15	1,110	1,200	1,200	1,740	883	785	1,280	780	4,340	3,420	1,000	632
16	1,060	1,120	1,150	1,320	820	816	1,170	777	2,300	e2,610	1,040	654
17	1,030	1,060	1,110	1,190	794	892	1,100	693	1,570	e2,170	1,090	719
18	1,010	1,020	1,070	1,100	764	840	1,060	666	e1,320	e1,800	1,330	626
19	1,040	987	1,040	1,050	747	805	1,020	679	e1,300	e1,910	1,390	594
20	1,080	963	997	1,020	764	784	984	872	e1,300	e2,270	1,210	579
21	995	933	964	1,000	982	753	954	1,020	e1,400	e2,340	1,160	568
22	969	901	956	970	1,160	758	981	811	1,250	e2,120	1,110	560
23	963	936	2,530	936	955	1,330	1,080	738	1,100	e1,890	1,450	550
24	958	1,270	3,880	884	966	1,210	970	687	1,020	e1,670	1,270	540
25	936	2,150	2,740	885	948	1,000	911	650	960	e1,480	1,120	532
26	908	1,480	1,730	880	877	921	882	631	929	1,360	1,030	552
27	894	1,250	1,500	862	841	919	896	610	e2,700	1,280	980	600
28	885	1,350	1,370	831	1,040	2,990	855	593	e3,300	1,260	952	541
29	971	1,200	1,290	843	---	3,490	834	586	e2,200	1,460	968	552
30	915	1,110	1,230	1,100	---	1,930	909	584	1,600	1,680	1,870	540
31	868	---	1,190	1,030	---	1,490	---	576	---	1,380	2,690	---
TOTAL	37,202	37,793	47,467	33,309	25,367	34,043	34,926	22,776	52,830	64,070	38,980	21,679
MEAN	1,200	1,260	1,531	1,074	906	1,098	1,164	735	1,761	2,067	1,257	723
MAX	2,290	2,420	3,880	2,370	1,160	3,490	1,690	1,020	4,790	3,930	2,690	1,520
MIN	868	836	956	831	747	753	834	576	663	1,100	952	532
CFSM	4.05	4.26	5.17	3.63	3.06	3.71	3.93	2.48	5.95	6.98	4.25	2.44
IN.	4.68	4.75	5.97	4.19	3.19	4.28	4.39	2.86	6.64	8.05	4.90	2.72

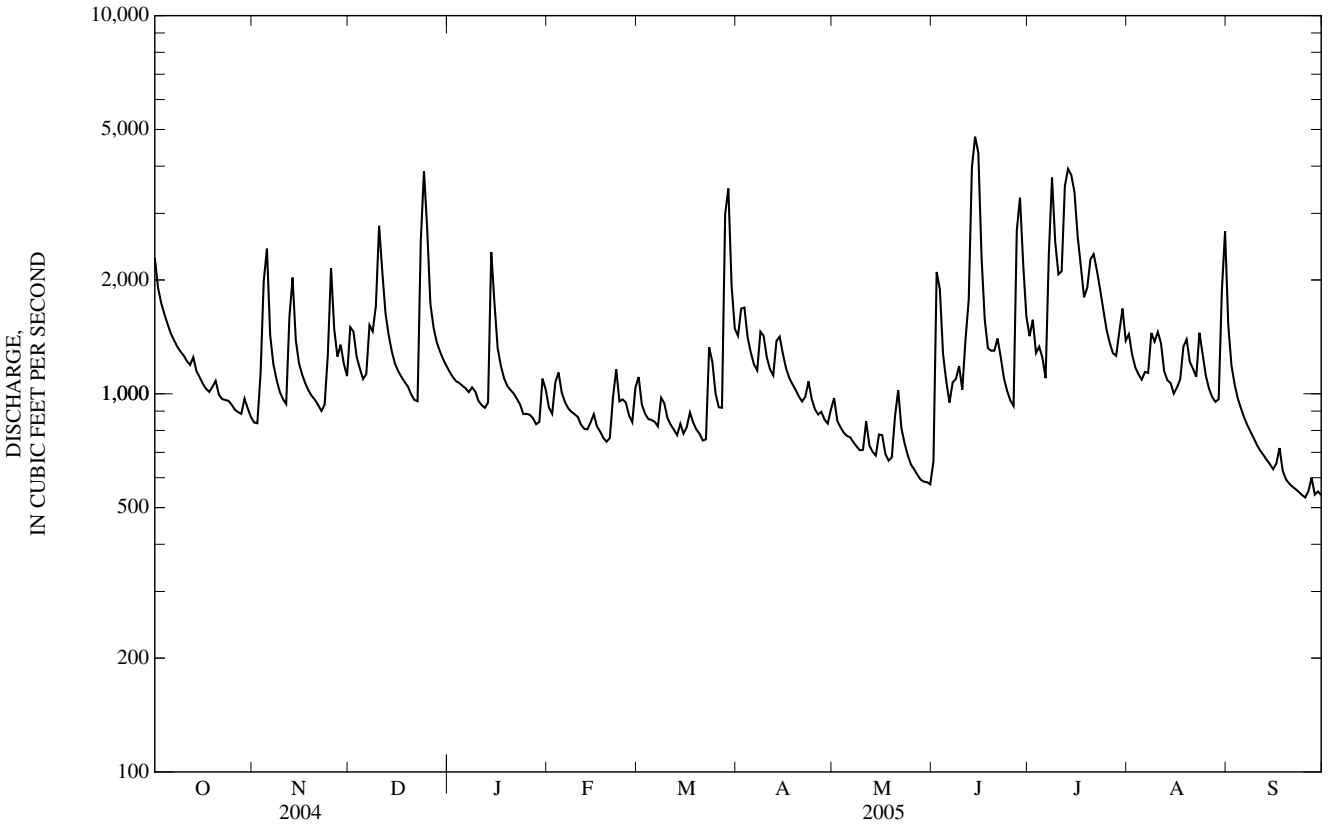
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2005, BY WATER YEAR (WY)

MEAN	757	845	1,029	1,191	1,265	1,376	1,290	1,055	879	741	772	722
MAX	3,504	2,486	2,142	2,783	2,735	3,169	2,509	2,339	1,872	2,214	2,363	3,779
(WY)	(1965)	(1980)	(1962)	(1937)	(1998)	(1979)	(1936)	(1973)	(1989)	(1949)	(1994)	(2004)
MIN	157	235	301	260	561	550	473	434	278	290	191	169
(WY)	(1955)	(1955)	(1956)	(1956)	(1941)	(1988)	(1986)	(1988)	(1988)	(1925)	(1925)	(1954)

03443000 FRENCH BROAD RIVER AT BLANTYRE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1921 - 2005	
ANNUAL TOTAL	435,310		450,442			
ANNUAL MEAN	1,189		1,234		992	
HIGHEST ANNUAL MEAN					1,564	1949
LOWEST ANNUAL MEAN					534	1988
HIGHEST DAILY MEAN	13,000	Sep 9	4,790	Jun 14	22,700	Oct 5, 1964
LOWEST DAILY MEAN	457	Jun 12	532	Sep 25	123	Oct 10, 1954
ANNUAL SEVEN-DAY MINIMUM	482	Jun 6	551	Sep 24	133	Oct 8, 1954
MAXIMUM PEAK FLOW			4,810	Jun 14	30,000	Oct 5, 1964
MAXIMUM PEAK STAGE			17.53	Jun 14	25.81*	Sep 9, 2004
INSTANTANEOUS LOW FLOW			518	Sep 30	119	Oct 1, 1954
ANNUAL RUNOFF (CFSM)	4.02		4.17		3.35	
ANNUAL RUNOFF (INCHES)	54.71		56.61		45.54	
10 PERCENT EXCEEDS	1,760		1,950		1,710	
50 PERCENT EXCEEDS	863		1,060		806	
90 PERCENT EXCEEDS	562		723		356	

* See REMARKS.
e Estimated.



03446000 MILLS RIVER NEAR MILLS RIVER, NC

LOCATION.--Lat 35°23'53", long 82°35'42", Henderson County, Hydrologic Unit 06010105, on right bank 1.5 mi downstream of confluence of North and South Forks, 1.8 mi northwest of Mills River, 4.2 mi northwest of Horseshoe, and at mile 4.6.

DRAINAGE AREA.--66.7 mi^2.

PERIOD OF RECORD.--September 1924 to September 1926, October 1933 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 823: Drainage area. WSP 923: 1935, 1937, 1939. WSP 1003: 1938, 1940-42. WSP 1143: 1940(P). WSP 1276: 1926.

GAGE.--Water-stage recorder. Datum of gage is 2,088.47 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Prior to Oct. 1, 1926, nonrecording gage at site 500 ft upstream at 2,091.44 ft. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. City of Hendersonville diverted about 6.1 ft^3/s from North Fork and Bradley Creek for municipal water supply. Maximum discharge for period of record, from rating curve extended above 6,200 ft^3/s on basis of slope-area measurement of peak flow. Minimum discharge for period of record result of freezeup. Minimum discharge for current water year also occurred June 1, Sept. 30.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	453	163	325	195	149	160	244	175	151	248	219	299
2	414	163	276	190	146	144	274	160	377	261	202	251
3	385	180	255	183	177	141	242	154	277	229	189	220
4	359	449	238	180	177	139	225	150	241	301	181	201
5	336	317	225	175	160	147	212	149	203	306	173	189
6	318	242	224	173	156	148	203	148	184	251	172	179
7	305	217	238	167	152	142	201	144	183	699	224	170
8	289	201	227	174	150	173	260	141	209	549	272	164
9	279	190	300	162	150	158	239	137	207	395	237	156
10	269	182	335	159	146	150	218	140	186	331	213	151
11	259	178	284	156	140	145	206	145	217	372	197	146
12	252	309	258	153	138	140	217	134	486	541	181	141
13	256	263	241	182	138	136	259	135	996	438	175	137
14	240	228	225	416	144	141	293	132	544	373	170	132
15	232	212	214	264	142	133	263	144	393	339	160	128
16	222	201	209	229	136	142	240	136	318	327	158	130
17	215	193	204	208	132	151	224	127	272	313	240	132
18	212	186	196	193	128	140	214	125	249	331	287	124
19	216	181	192	188	126	138	204	127	240	333	294	118
20	210	177	180	184	133	133	196	215	238	389	233	116
21	200	172	180	179	172	130	189	179	232	379	325	113
22	193	169	179	172	176	136	200	153	211	325	244	112
23	197	183	519	163	151	235	209	140	195	288	240	109
24	194	346	368	162	163	193	190	130	180	261	219	107
25	185	364	297	162	153	173	182	123	170	243	199	105
26	179	282	263	157	146	162	177	120	173	228	188	113
27	176	255	240	151	142	174	175	117	378	216	178	110
28	175	263	226	146	170	652	165	117	282	226	171	105
29	190	233	217	152	---	398	162	114	335	281	175	105
30	173	222	208	171	---	312	180	110	280	241	546	105
31	167	---	202	157	---	270	---	107	---	225	419	---
TOTAL	7,750	6,921	7,745	5,703	4,193	5,736	6,463	4,328	8,607	10,239	7,081	4,368
MEAN	250	231	250	184	150	185	215	140	287	330	228	146
MAX	453	449	519	416	177	652	293	215	996	699	546	299
MIN	167	163	179	146	126	130	162	107	151	216	158	105
CFSM	3.75	3.46	3.75	2.76	2.25	2.77	3.23	2.09	4.30	4.95	3.42	2.18
IN.	4.32	3.86	4.32	3.18	2.34	3.20	3.60	2.41	4.80	5.71	3.95	2.44

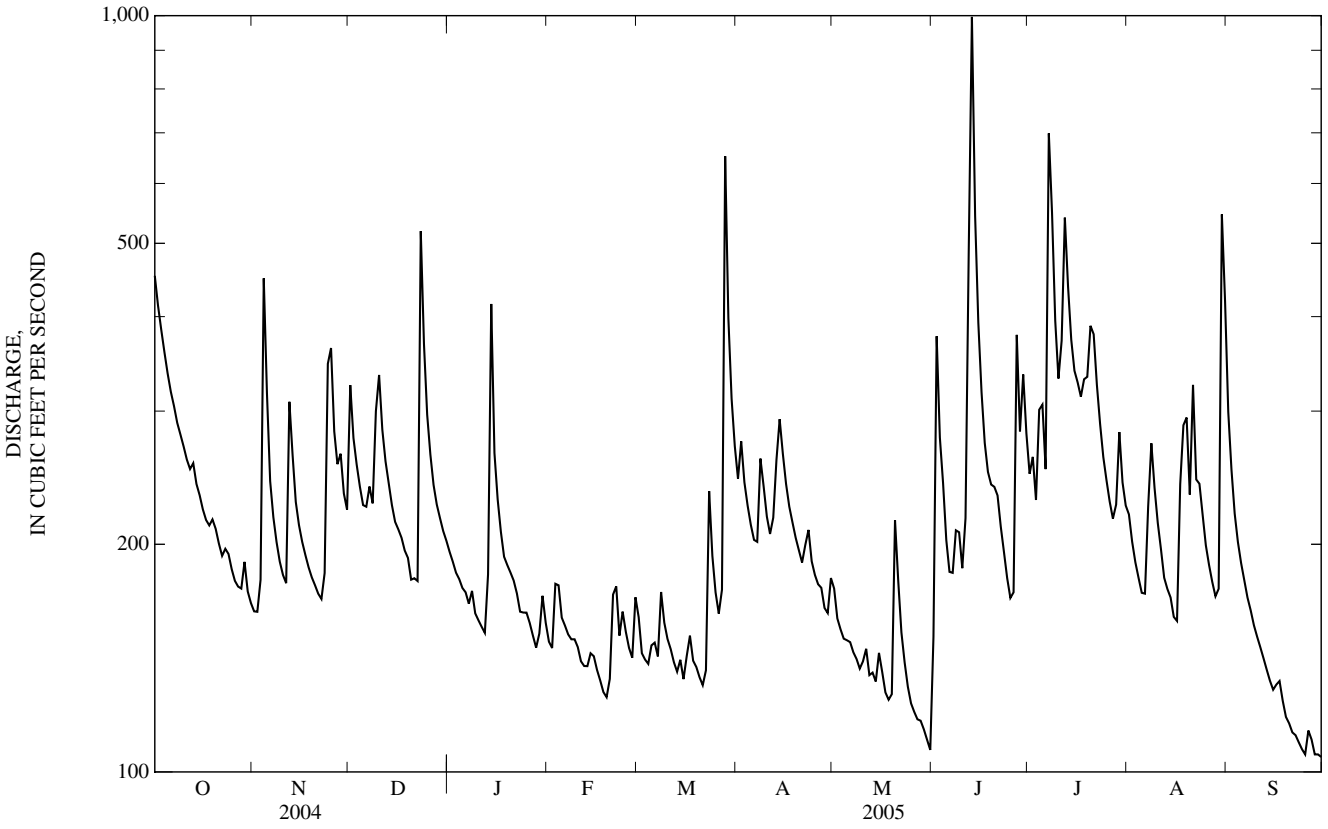
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2005,@ BY WATER YEAR (WY)

MEAN	125	143	164	196	217	241	233	188	152	124	128	123
MAX	465	510	338	534	499	520	468	425	359	356	506	729
(WY)	(1965)	(1980)	(1962)	(1937)	(1998)	(1979)	(1957)	(2003)	(1992)	(1989)	(1940)	(2004)
MIN	24.8	35.2	40.7	43.5	88.9	87.5	79.7	76.2	41.7	38.6	25.4	22.8
(WY)	(1955)	(1955)	(1940)	(1956)	(1941)	(1988)	(1986)	(1988)	(1988)	(1988)	(1925)	(1925)

03446000 MILLS RIVER NEAR MILLS RIVER, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1925 - 2005@	
ANNUAL TOTAL	79,314		79,134			
ANNUAL MEAN	217		217		169	
HIGHEST ANNUAL MEAN					272	1949
LOWEST ANNUAL MEAN					86.3	2002
HIGHEST DAILY MEAN	4,430	Sep 8	996	Jun 13	4,470	Aug 13, 1940
LOWEST DAILY MEAN	70	Aug 28	105	Sep 25	18	Sep 30, 1954
ANNUAL SEVEN-DAY MINIMUM	76	Aug 17	107	Sep 24	19	Sep 24, 1954
MAXIMUM PEAK FLOW			1,310	Jun 13	13,400*	Aug 30, 1940
MAXIMUM PEAK STAGE			4.34	Jun 13	13.62	Aug 30, 1940
INSTANTANEOUS LOW FLOW			103*	May 31	16*	Dec 24, 1943
ANNUAL RUNOFF (CFSM)	3.25		3.25		2.54	
ANNUAL RUNOFF (INCHES)	44.24		44.13		34.52	
10 PERCENT EXCEEDS	337		329		302	
50 PERCENT EXCEEDS	156		190		136	
90 PERCENT EXCEEDS	100		134		54	

* See REMARKS.
@ See PERIOD OF RECORD.



03447687 FRENCH BROAD RIVER NEAR FLETCHER, NC

LOCATION.--Lat 35°25'39", long 82°32'53", Henderson County, Hydrologic Unit 06010105, on right bank 30 ft downstream of bridge on Secondary Road 1419, 0.4 mi downstream from McDowell Creek, 2.9 mi west of Fletcher, and at river mile 165.3.

DRAINAGE AREA.--640 mi^2.

PERIOD OF RECORD.--July 2001 to current year.

REVISED RECORDS.--WDR NC-04-1: 2001-2003(M).

GAGE.--Water-stage recorder. Elevation of gage is 2,055 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Minimum discharge for current water year also occurred on Sept. 30.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,760	1,360	2,390	1,820	1,510	2,000	2,380	1,600	1,040	2,310	2,230	2,540
2	3,140	1,330	2,400	1,760	1,440	1,640	2,530	1,410	2,650	2,420	1,980	1,910
3	2,790	1,700	2,070	1,710	1,710	1,520	2,670	1,340	2,910	2,130	1,780	1,680
4	2,590	3,220	1,920	1,680	1,850	1,470	2,280	1,300	2,070	2,220	1,670	1,540
5	2,410	4,090	1,820	1,650	1,640	1,450	2,070	1,280	1,740	2,360	1,650	1,450
6	2,270	2,580	1,790	1,620	1,540	1,430	1,930	1,270	1,610	1,960	1,680	1,370
7	2,180	2,010	2,200	1,580	1,470	1,390	1,860	1,240	1,810	5,020	1,970	1,300
8	2,100	1,820	2,220	1,610	1,440	1,560	2,220	1,210	1,780	7,010	2,920	1,250
9	2,040	1,680	2,920	1,610	1,420	1,580	2,360	1,180	2,040	5,570	2,440	1,210
10	1,990	1,590	4,380	1,530	1,410	1,450	2,040	1,160	1,650	3,230	2,240	1,160
11	1,930	1,540	3,610	1,480	1,350	1,390	1,880	1,310	2,000	3,480	2,100	1,120
12	1,870	2,550	2,670	1,450	1,310	1,350	1,860	1,220	2,480	5,800	1,820	1,090
13	1,980	3,270	2,340	1,480	1,290	1,300	2,270	1,170	5,590	5,880	1,680	1,060
14	1,860	2,340	2,120	4,290	1,340	1,450	2,500	1,120	5,680	5,610	1,630	1,040
15	1,770	2,000	1,960	3,280	1,410	1,370	2,230	1,190	5,540	5,280	1,630	1,010
16	1,700	1,850	1,850	2,280	1,330	1,370	1,990	1,270	4,720	4,260	1,520	1,010
17	1,630	1,760	1,770	1,990	1,280	1,530	1,850	1,160	2,530	3,410	1,710	1,120
18	1,590	1,690	1,730	1,810	1,240	1,460	1,760	1,090	2,080	3,450	2,080	1,030
19	1,610	1,620	1,680	1,720	1,200	1,370	1,690	1,090	2,070	2,940	2,670	957
20	1,690	1,570	1,610	1,680	1,240	1,330	1,630	1,640	2,070	3,280	1,950	919
21	1,600	1,530	1,560	1,650	1,680	1,280	1,570	1,680	2,270	3,370	2,000	904
22	1,550	1,490	1,540	1,590	2,000	1,280	1,620	1,380	1,950	3,040	1,660	889
23	1,540	1,540	3,730	1,540	1,640	2,090	1,820	1,240	1,740	2,830	2,080	877
24	1,580	2,120	5,080	1,440	1,600	2,090	1,660	1,150	1,590	2,460	2,090	856
25	1,520	3,380	4,670	1,450	1,580	1,690	1,530	1,080	1,500	2,250	1,690	838
26	1,460	2,550	2,940	1,440	1,460	1,560	1,470	1,030	1,500	2,060	1,520	861
27	1,430	2,090	2,380	1,410	1,390	1,540	1,500	1,010	5,600	1,950	1,440	942
28	1,420	2,170	2,170	1,370	1,740	5,010	1,430	992	6,240	2,000	1,380	874
29	1,520	2,010	2,060	1,360	---	5,650	1,390	980	3,670	2,380	1,390	856
30	1,490	1,850	1,960	1,680	---	4,050	1,460	968	2,830	2,500	2,890	858
31	1,410	---	1,890	1,710	---	2,570	---	970	---	2,420	3,730	---
TOTAL	60,420	62,300	75,430	54,670	41,510	58,220	57,450	37,730	82,950	104,880	61,220	34,521
MEAN	1,949	2,077	2,433	1,764	1,482	1,878	1,915	1,217	2,765	3,383	1,975	1,151
MAX	4,760	4,090	5,080	4,290	2,000	5,650	2,670	1,680	6,240	7,010	3,730	2,540
MIN	1,410	1,330	1,540	1,360	1,200	1,280	1,390	968	1,040	1,950	1,380	838
CFSM	3.05	3.24	3.80	2.76	2.32	2.93	2.99	1.90	4.32	5.29	3.09	1.80
IN.	3.51	3.62	4.38	3.18	2.41	3.38	3.34	2.19	4.82	6.10	3.56	2.01

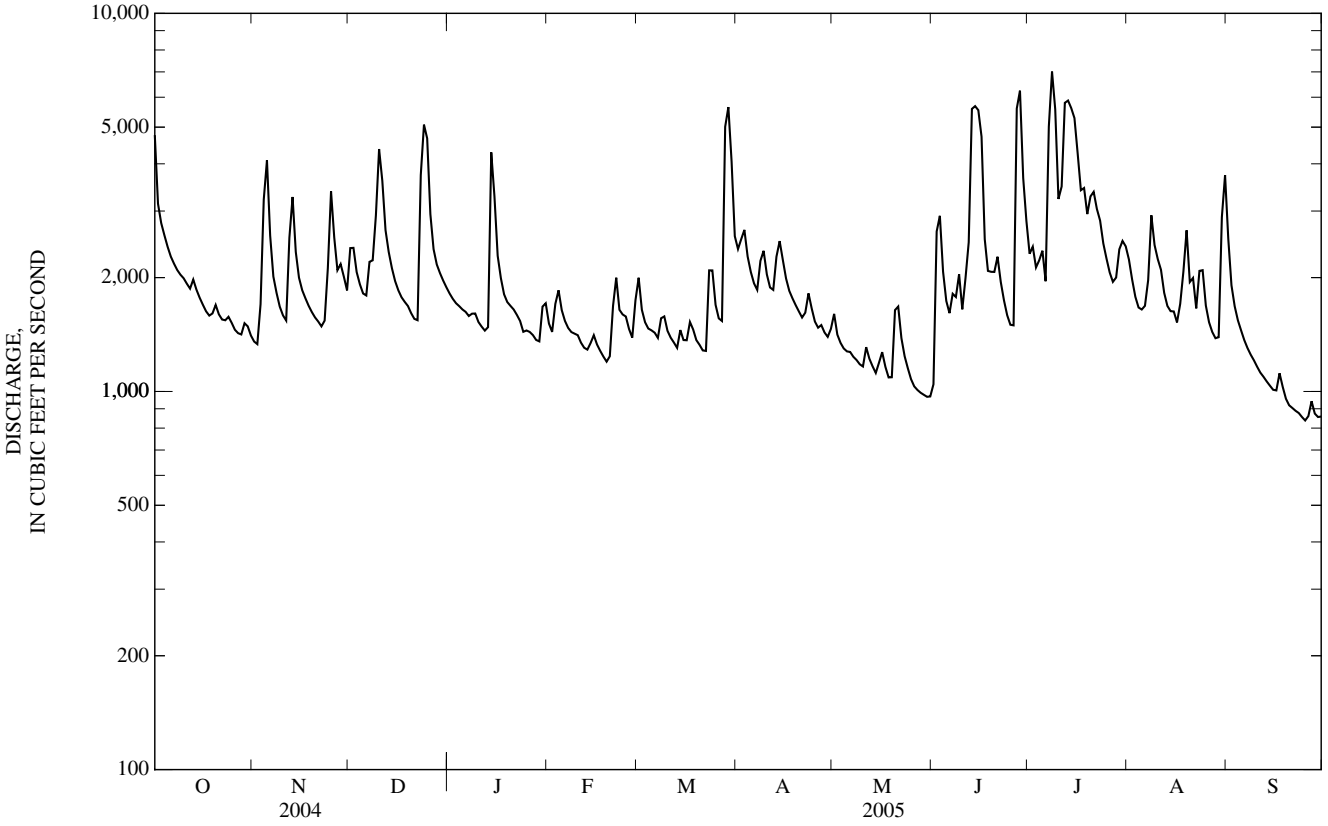
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2005, BY WATER YEAR (WY)

MEAN	1,158	1,633	1,978	1,398	1,760	1,798	1,826	1,841	1,821	1,738	1,252	2,453
MAX	1,949	2,311	2,433	1,764	2,499	2,480	2,706	3,663	2,765	3,383	2,076	7,541
(WY)	(2005)	(2004)	(2005)	(2005)	(2004)	(2003)	(2003)	(2003)	(2005)	(2005)	(2003)	(2004)
MIN	587	522	806	1,149	1,130	1,230	1,319	1,217	801	513	346	787
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(2004)	(2004)	(2005)	(2002)	(2002)	(2002)	(2001)

03447687 FRENCH BROAD RIVER NEAR FLETCHER, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2001 - 2005	
ANNUAL TOTAL	776,419		731,301			
ANNUAL MEAN	2,121		2,004		1,785	
HIGHEST ANNUAL MEAN					2,145	2003
LOWEST ANNUAL MEAN					923	2002
HIGHEST DAILY MEAN	23,800	Sep 9	7,010	Jul 8	23,800	Sep 9, 2004
LOWEST DAILY MEAN	769	Aug 23	838	Sep 25	201	Sep 13, 2002
ANNUAL SEVEN-DAY MINIMUM	805	Aug 17	869	Sep 24	221	Sep 7, 2002
MAXIMUM PEAK FLOW			7,390	Jul 7	25,500	Sep 8, 2004
MAXIMUM PEAK STAGE			10.84	Jul 7	20.13	Sep 8, 2004
INSTANTANEOUS LOW FLOW			829*	Sep 26	193	Sep 12, 2002
ANNUAL RUNOFF (CFSM)	3.31		3.13		2.79	
ANNUAL RUNOFF (INCHES)	45.13		42.51		37.90	
10 PERCENT EXCEEDS	3,110		3,220		2,940	
50 PERCENT EXCEEDS	1,480		1,680		1,440	
90 PERCENT EXCEEDS	981		1,180		595	

* See REMARKS.



0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC

LOCATION.--Lat 35°28'54", long 82°38'05", Buncombe County, Hydrologic Unit 06010105, on right bank 70 ft below trail footbridge, 300 ft downstream from culvert under Bent Creek Gap Road, 0.4 mi west of Lake Powhatan, and at Bent Creek Research Station well cluster number 2.

DRAINAGE AREA.--1.03 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 2004 to November 2005 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 2,177.77 ft above NGVD of 1929 (levels by North Carolina Department of Environment and Natural Resources). Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for 2005 water year also occurred Sept. 24, 25. Minimum discharge for 2006 water year also occurred Oct. 18.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	e1.5	1.8	1.7	1.3	0.58	e1.0	1.7
2	---	---	---	---	---	e1.6	1.4	1.8	0.95	0.62	e1.1	3.9
3	---	---	---	---	---	e1.6	1.3	1.6	0.90	0.71	e1.1	2.0
4	---	---	---	---	---	e1.5	1.2	1.5	1.5	0.68	0.87	1.5
5	---	---	---	---	---	e1.5	1.2	1.5	0.82	0.65	0.92	1.3
6	---	---	---	---	---	e1.6	1.1	1.4	0.72	0.80	0.83	1.7
7	---	---	---	---	---	e1.5	1.1	1.3	0.68	0.75	0.78	17
8	---	---	---	---	---	e1.5	1.1	1.3	0.71	0.71	0.79	24
9	---	---	---	---	---	e1.5	0.98	1.7	0.61	0.76	0.74	7.4
10	---	---	---	---	---	e1.4	0.92	1.3	0.54	0.79	0.70	5.3
11	---	---	---	---	---	e1.4	1.2	1.1	0.45	0.84	2.0	5.2
12	---	---	---	---	---	e1.3	2.5	0.97	0.55	0.88	2.2	4.5
13	---	---	---	---	---	e1.3	7.5	1.3	0.81	0.93	1.4	4.6
14	---	---	---	---	---	e1.4	4.2	1.2	0.72	0.81	1.1	4.1
15	---	---	---	---	---	e1.5	2.5	0.95	2.0	0.68	1.0	4.0
16	---	---	---	---	---	e1.6	2.0	0.82	1.5	0.63	0.89	9.2
17	---	---	---	---	---	e1.4	1.8	0.82	1.5	0.81	0.85	e56
18	---	---	---	---	---	1.6	1.6	0.77	1.5	0.85	0.81	4.7
19	---	---	---	---	---	1.4	1.5	0.86	0.99	0.71	0.79	3.3
20	---	---	---	---	---	1.4	1.3	0.93	0.76	0.68	0.77	2.5
21	---	---	---	---	---	e1.4	1.2	0.71	0.81	0.63	1.00	2.2
22	---	---	---	---	---	e1.2	1.1	0.87	0.85	0.62	0.99	2.1
23	---	---	---	---	---	1.1	1.2	1.1	0.72	0.59	0.91	2.2
24	---	---	---	---	---	1.1	1.3	0.88	0.67	0.64	0.83	2.1
25	---	---	---	---	---	0.99	1.2	0.67	0.89	0.63	0.80	2.1
26	---	---	---	---	---	0.96	2.8	0.69	0.90	0.62	0.78	2.1
27	---	---	---	---	---	0.91	2.2	0.79	0.75	2.5	0.74	3.7
28	---	---	---	---	---	0.87	1.9	0.69	0.69	1.6	0.74	7.9
29	---	---	---	---	---	0.80	1.8	0.62	0.61	e1.0	1.5	4.5
30	---	---	---	---	---	0.88	1.7	0.91	0.60	e1.2	2.3	3.9
31	---	---	---	---	---	2.1	---	2.0	---	e1.0	1.9	---
TOTAL	---	---	---	---	---	41.81	54.60	34.75	27.00	25.90	33.13	196.7
MEAN	---	---	---	---	---	1.35	1.82	1.12	0.90	0.84	1.07	6.56
MAX	---	---	---	---	---	2.1	7.5	2.0	2.0	2.5	2.3	56
MIN	---	---	---	---	---	0.80	0.92	0.62	0.45	0.58	0.70	1.3
CFSM	---	---	---	---	---	1.31	1.77	1.09	0.87	0.81	1.04	6.37
IN.	---	---	---	---	---	1.51	1.97	1.26	0.98	0.94	1.20	7.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2004, BY WATER YEAR (WY)

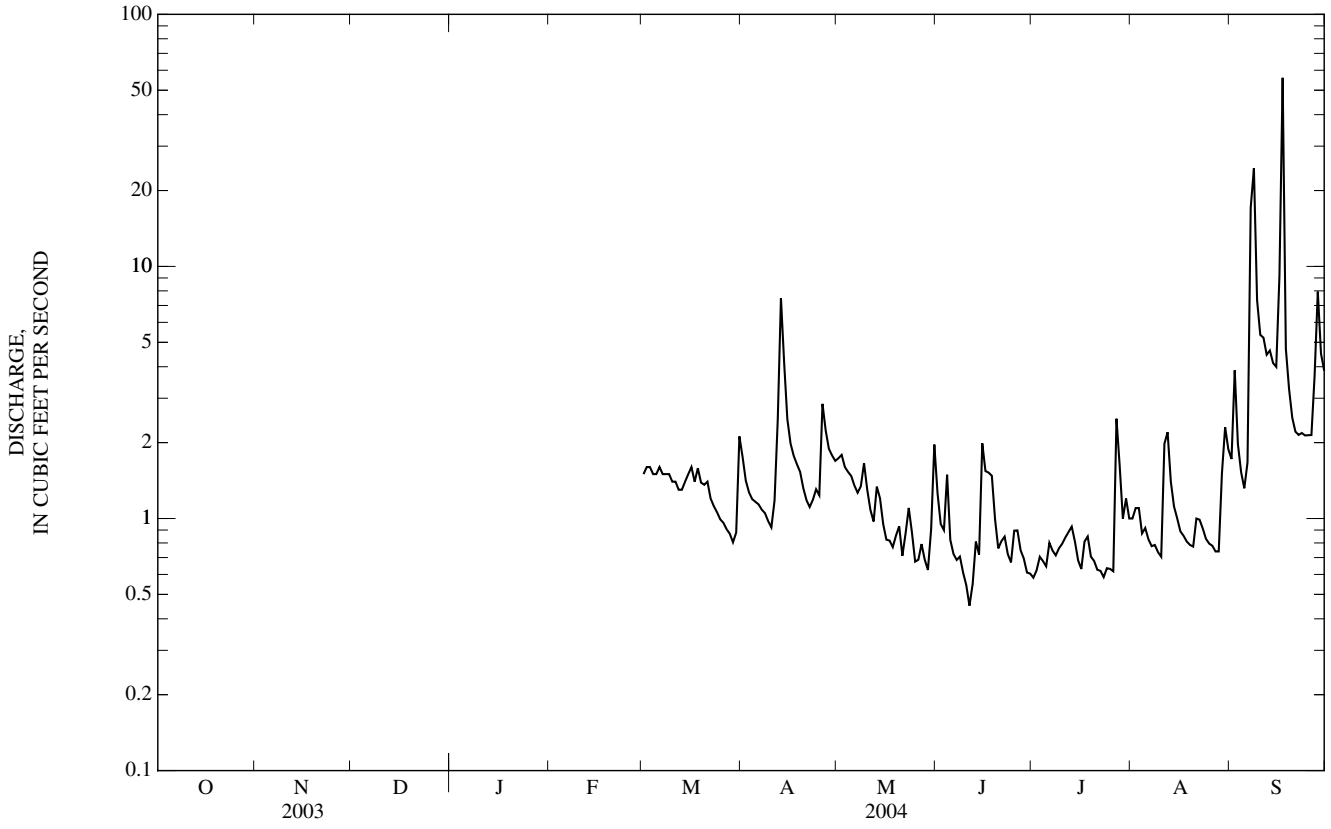
MEAN	---	---	---	---	---	1.35	1.82	1.12	0.90	0.84	1.07	6.56
MAX	---	---	---	---	---	1.35	1.82	1.12	0.90	0.84	1.07	6.56
(WY)	---	---	---	---	---	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)
MIN	---	---	---	---	---	1.35	1.82	1.12	0.90	0.84	1.07	6.56
(WY)	---	---	---	---	---	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)

SUMMARY STATISTICS FOR 2004 WATER YEAR

INSTANTANEOUS PEAK FLOW	NOT DETERMINED	
INSTANTANEOUS PEAK STAGE	4.91	Sep 17
INSTANTANEOUS LOW FLOW	0.34	Jun 12

e Estimated.

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued



0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	1.9	3.1	1.8	1.6	1.8	2.3	1.6	1.8	2.6	2.2	1.7
2	3.0	2.0	2.6	1.8	1.5	1.7	2.6	1.5	2.4	2.2	2.0	1.5
3	2.8	2.2	2.5	1.7	1.7	1.6	2.2	1.5	1.8	2.0	1.8	1.4
4	2.7	7.1	2.4	1.7	1.5	1.5	2.1	1.4	1.6	1.9	1.7	1.3
5	2.5	3.6	2.3	1.7	1.5	1.5	2.0	1.4	1.4	1.7	1.7	1.3
6	2.5	2.8	2.3	1.8	1.4	1.5	1.9	1.4	1.4	1.6	1.7	1.2
7	2.4	2.5	2.3	1.7	1.4	1.5	2.0	1.4	1.3	8.4	2.2	1.2
8	2.3	2.3	2.2	1.7	1.4	1.7	2.1	1.4	1.6	4.2	2.6	1.2
9	2.3	2.2	3.2	1.6	1.5	1.5	1.9	1.4	1.4	2.8	2.1	1.1
10	2.3	2.1	2.9	1.6	1.4	1.5	1.8	1.7	1.4	2.3	1.9	1.1
11	2.2	2.1	2.6	1.6	1.4	1.4	1.7	1.6	1.4	3.1	1.7	1.1
12	2.3	3.4	2.5	1.6	1.4	1.4	1.9	1.4	4.0	2.8	1.6	1.1
13	2.4	2.6	2.4	2.8	1.5	1.4	2.2	1.4	4.4	2.6	1.6	1.2
14	2.2	2.4	2.2	3.9	1.5	1.4	2.6	1.5	2.6	2.3	1.5	1.2
15	2.2	2.3	2.2	2.5	1.4	1.4	2.2	1.5	2.0	2.2	1.4	1.2
16	2.1	2.3	2.2	2.2	1.4	1.5	2.0	1.4	1.7	2.1	1.5	1.3
17	2.0	2.2	2.1	2.0	1.3	1.6	1.9	1.4	1.6	1.9	1.5	1.2
18	2.1	2.1	2.1	1.9	1.3	1.4	1.8	1.3	1.7	1.9	1.7	1.2
19	2.4	2.1	2.1	1.9	1.3	1.4	1.8	1.4	2.4	3.1	1.5	1.1
20	2.1	2.1	2.0	1.9	1.4	1.3	1.6	2.7	2.2	4.2	1.5	1.1
21	2.1	2.0	2.0	1.8	2.2	1.3	1.5	1.7	1.9	3.7	1.4	1.1
22	2.0	2.1	2.2	1.8	1.8	1.6	1.6	1.6	1.7	2.8	1.5	1.1
23	2.1	2.3	5.6	1.6	1.7	2.5	1.8	1.5	1.5	2.3	1.5	1.1
24	2.2	5.9	3.0	1.7	1.8	1.9	1.7	1.5	1.4	2.1	1.4	1.1
25	2.0	4.3	2.5	1.7	1.6	1.8	1.6	1.4	1.2	2.0	1.3	1.1
26	1.9	3.2	2.3	1.7	1.5	1.6	1.6	1.4	1.4	1.9	1.3	1.3
27	2.0	3.0	2.1	1.6	1.5	2.4	1.6	1.3	2.9	3.2	1.3	1.2
28	2.2	2.8	2.0	1.5	2.1	8.0	1.5	1.4	10	2.6	1.2	1.1
29	2.4	2.5	2.0	1.7	---	3.6	1.5	1.3	6.7	3.3	1.3	1.2
30	2.1	2.5	1.9	1.8	---	2.7	1.7	1.3	3.3	2.7	4.4	1.1
31	2.0	---	1.8	1.7	---	2.4	---	1.2	---	2.5	2.2	---
TOTAL	71.0	82.9	75.6	58.0	43.0	59.8	56.7	45.9	72.1	85.0	54.2	36.1
MEAN	2.29	2.76	2.44	1.87	1.54	1.93	1.89	1.48	2.40	2.74	1.75	1.20
MAX	3.2	7.1	5.6	3.9	2.2	8.0	2.6	2.7	10	8.4	4.4	1.7
MIN	1.9	1.9	1.8	1.5	1.3	1.3	1.5	1.2	1.2	1.6	1.2	1.1
CFSM	2.22	2.68	2.37	1.82	1.49	1.87	1.83	1.44	2.33	2.66	1.70	1.17
IN.	2.56	2.99	2.73	2.09	1.55	2.16	2.05	1.66	2.60	3.07	1.96	1.30

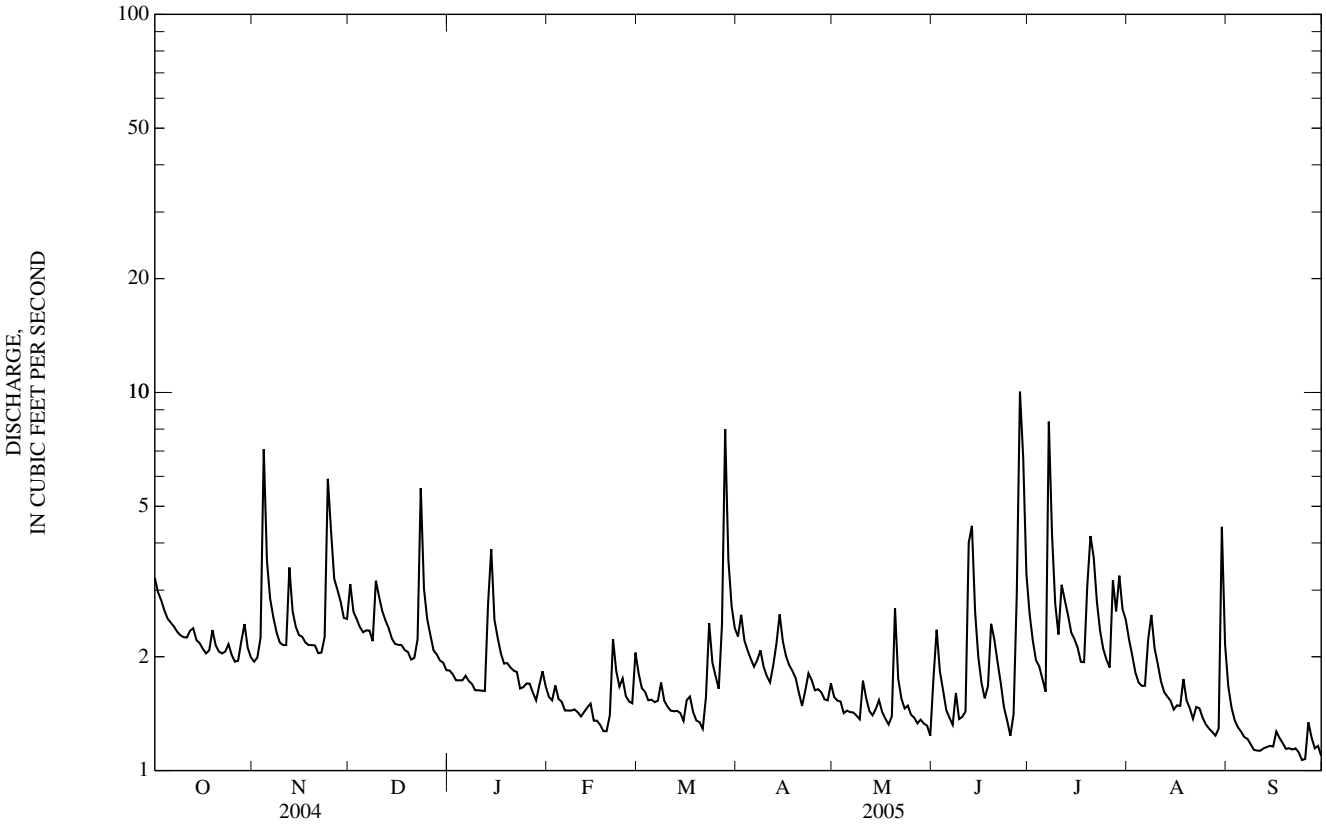
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2005, BY WATER YEAR (WY)

MEAN	2.29	2.76	2.44	1.87	1.54	1.64	1.85	1.30	1.65	1.79	1.41	3.88
MAX	2.29	2.76	2.44	1.87	1.54	1.93	1.89	1.48	2.40	2.74	1.75	6.56
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)
MIN	2.29	2.76	2.44	1.87	1.54	1.35	1.82	1.12	0.90	0.84	1.07	1.20
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2005)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2004 - 2005	
ANNUAL TOTAL			740.3			
ANNUAL MEAN			2.03		2.03	
HIGHEST ANNUAL MEAN					2.03	2005
LOWEST ANNUAL MEAN					2.03	2005
HIGHEST DAILY MEAN	56	Sep 17	10	Jun 28	56	Sep 17, 2004
LOWEST DAILY MEAN	0.45	Jun 11	1.1	Sep 9	0.45	Jun 11, 2004
ANNUAL SEVEN-DAY MINIMUM	0.61	Jun 6	1.1	Sep 19	0.61	Jun 6, 2004
MAXIMUM PEAK FLOW			63	Jun 28	NOT DETERMINED	
MAXIMUM PEAK STAGE			3.19	Jun 28	4.91	Sep 17, 2004
INSTANTANEOUS LOW FLOW			0.98*	Sep 23	0.34	Jun 12, 2004
ANNUAL RUNOFF (CFSM)			1.97		1.97	
ANNUAL RUNOFF (INCHES)			26.74		26.75	
10 PERCENT EXCEEDS			2.8		2.8	
50 PERCENT EXCEEDS			1.8		1.8	
90 PERCENT EXCEEDS			1.3		1.3	

* See REMARKS.

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued



0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	0.92	---	---	---	---	---	---	---	---	---	---
2	1.1	0.90	---	---	---	---	---	---	---	---	---	---
3	1.1	0.90	---	---	---	---	---	---	---	---	---	---
4	1.1	0.92	---	---	---	---	---	---	---	---	---	---
5	1.1	0.92	---	---	---	---	---	---	---	---	---	---
6	2.7	0.92	---	---	---	---	---	---	---	---	---	---
7	1.9	0.92	---	---	---	---	---	---	---	---	---	---
8	1.6	0.92	---	---	---	---	---	---	---	---	---	---
9	1.3	0.92	---	---	---	---	---	---	---	---	---	---
10	1.3	1.0	---	---	---	---	---	---	---	---	---	---
11	1.2	0.98	---	---	---	---	---	---	---	---	---	---
12	1.2	0.98	---	---	---	---	---	---	---	---	---	---
13	1.2	1.00	---	---	---	---	---	---	---	---	---	---
14	1.2	1.0	---	---	---	---	---	---	---	---	---	---
15	1.1	1.1	---	---	---	---	---	---	---	---	---	---
16	1.1	2.1	---	---	---	---	---	---	---	---	---	---
17	0.91	1.1	---	---	---	---	---	---	---	---	---	---
18	0.85	1.0	---	---	---	---	---	---	---	---	---	---
19	0.86	0.98	---	---	---	---	---	---	---	---	---	---
20	0.88	0.98	---	---	---	---	---	---	---	---	---	---
21	0.91	2.7	---	---	---	---	---	---	---	---	---	---
22	0.91	2.3	---	---	---	---	---	---	---	---	---	---
23	0.92	1.3	---	---	---	---	---	---	---	---	---	---
24	0.91	1.1	---	---	---	---	---	---	---	---	---	---
25	0.91	1.0	---	---	---	---	---	---	---	---	---	---
26	0.92	0.99	---	---	---	---	---	---	---	---	---	---
27	0.92	1.00	---	---	---	---	---	---	---	---	---	---
28	0.92	2.7	---	---	---	---	---	---	---	---	---	---
29	0.92	11	---	---	---	---	---	---	---	---	---	---
30	0.92	3.1	---	---	---	---	---	---	---	---	---	---
31	0.92	---	---	---	---	---	---	---	---	---	---	---
TOTAL	34.88	47.65	---	---	---	---	---	---	---	---	---	---
MEAN	1.13	1.59	---	---	---	---	---	---	---	---	---	---
MAX	2.7	11	---	---	---	---	---	---	---	---	---	---
MIN	0.85	0.90	---	---	---	---	---	---	---	---	---	---
CFSM	1.09	1.54	---	---	---	---	---	---	---	---	---	---
IN.	1.26	1.72	---	---	---	---	---	---	---	---	---	---

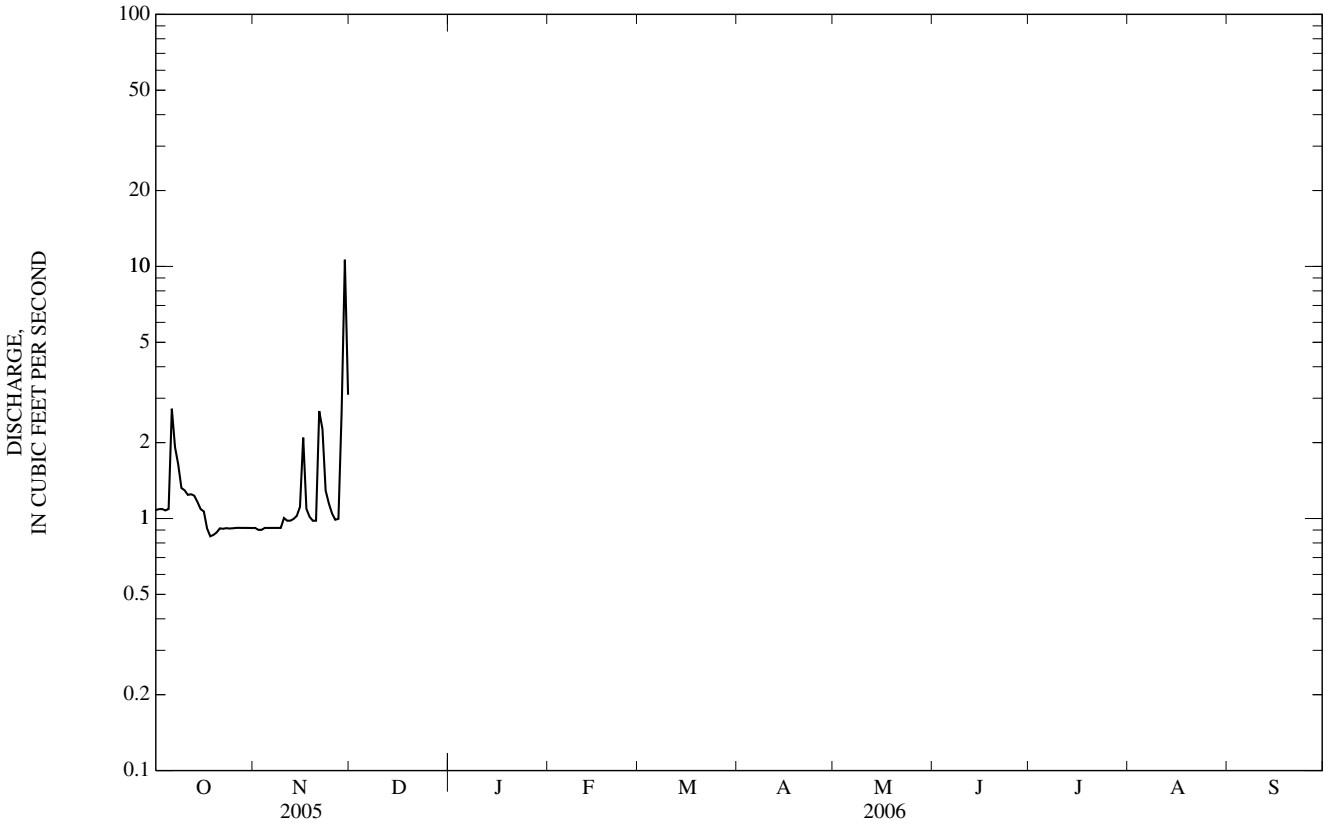
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2006, BY WATER YEAR (WY)

MEAN	1.71	2.18	2.44	1.87	1.54	1.64	1.85	1.30	1.65	1.79	1.41	3.88
MAX	2.29	2.76	2.44	1.87	1.54	1.93	1.89	1.48	2.40	2.74	1.75	6.56
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)
MIN	1.13	1.59	2.44	1.87	1.54	1.35	1.82	1.12	0.90	0.84	1.07	1.20
(WY)	(2006)	(2006)	(2005)	(2005)	(2005)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2005)

SUMMARY STATISTICS	FOR 2005 CALENDAR YEAR		FOR 2006 WATER YEAR		WATER YEARS 2004 - 2006	
ANNUAL MEAN					2.03	
HIGHEST ANNUAL MEAN					2.03	2005
LOWEST ANNUAL MEAN					2.03	2005
HIGHEST DAILY MEAN	11	Nov 29	11	Nov 29	56	Sep 17, 2004
LOWEST DAILY MEAN	0.85	Oct 18	0.85	Oct 18	0.45	Jun 11, 2004
ANNUAL SEVEN-DAY MINIMUM	0.89	Oct 17	0.89	Oct 17	0.61	Jun 6, 2004
MAXIMUM PEAK FLOW			43	Nov 29	NOT DETERMINED	
MAXIMUM PEAK STAGE			2.98	Nov 29	4.91	Sep 17, 2004
INSTANTANEOUS LOW FLOW			0.80*	Oct 17	0.34	Jun 12, 2004
ANNUAL RUNOFF (CFSM)					1.97	
ANNUAL RUNOFF (INCHES)					26.75	
10 PERCENT EXCEEDS					2.8	
50 PERCENT EXCEEDS					1.8	
90 PERCENT EXCEEDS					1.3	

* See REMARKS.

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued



0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 2004 to November 2005 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: August 2004 to November 2005.
pH: August 2004 to November 2005.
WATER TEMPERATURE: August 2004 to November 2005.
DISSOLVED OXYGEN: August 2004 to November 2005.
DISSOLVED OXYGEN, PERCENT SATURATION: August 2004 to November 2005.

INSTRUMENTATION.-- Water-quality monitor with satellite telemetry from August 2004 to November 2005.

REMARKS.--Station operated in cooperation with North Carolina Department of Environment and Natural Resources, Division of Water Resources, as part of the Piedmont/Mountains ground-water project. Dissolved oxygen, percent saturation, computed using a barometric pressure of 710 mm Hg.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	33, October 6, 7, November 29, 2005	9, December 20, 21, 2004, January 28, 29, 2005
pH, standard units	7.4, August 9, 2004	5.8, July 27, August 13, 2005
WATER TEMPERATURE, °C	20.4, July 27, 2005	0.4, January 24, 2005
DISSOLVED OXYGEN, mg/L	13.0, December 20, 2004, March 2, 2005	6.1, November 9, 10, 2005
DISSOLVED OXYGEN, PERCENT SATURATION,%	105, April 16, 17, June 28, 2005	62, November 10, 2005

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Carbon dioxide water, unfltrd mg/L (00405)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)	Hard-ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Potas-sium, water, fltrd, mg/L (00935)	Sodium adsorp-tion ratio (00931)	Sodium, water, fltrd, mg/L (00930)
AUG 18...	0815	1.0	8.2	94	7.3	18	18.1	6	1.21	.691	.78	.3	1.49

Date	Sodium, percent (00932)	ANC, wat unf incrm. titr., field, mg/L as CaCO3 (00419)	Bromide water, fltrd, mg/L (71870)	Chlor-ide, water, fltrd, mg/L (00940)	Fluor-ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti-tuents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
AUG 18...	32	8	.04	.88	<.1	11.2	1.0	22	.03	25	<.04	E.04	<.008

Date	Total nitro-gen, wat flt by anal ysis, mg/L (62854)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Arsenic water, fltrd, ug/L (01000)	Boron, water, fltrd, ug/L (01020)	Iron, water, fltrd, ug/L (01046)	Mangan-ese, water, fltrd, ug/L (01056)
AUG 18...	.20	<.006	<2	<7.0	77	10.8

Remark codes used in this table:
< -- Less than.
E -- Estimated.

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	18	17	17	---	---	---
5	---	---	---	---	---	---	17	17	17	---	---	---
6	---	---	---	---	---	---	17	16	17	---	---	---
7	---	---	---	---	---	---	17	15	16	---	---	---
8	---	---	---	---	---	---	16	15	15	---	---	---
9	---	---	---	---	---	---	16	15	15	---	---	---
10	---	---	---	---	---	---	16	15	16	---	---	---
11	---	---	---	---	---	---	24	16	16	---	---	---
12	---	---	---	---	---	---	17	16	16	---	---	---
13	---	---	---	---	---	---	17	14	15	---	---	---
14	---	---	---	---	---	---	15	14	15	---	---	---
15	---	---	---	---	---	---	16	15	15	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	15	10	15	---	---	---
18	---	---	---	---	---	---	17	15	15	---	---	---
19	---	---	---	---	---	---	16	15	15	---	---	---
20	---	---	---	---	---	---	16	15	15	---	---	---
21	---	---	---	---	---	---	17	16	16	---	---	---
22	---	---	---	---	---	---	17	16	16	---	---	---
23	---	---	---	---	---	---	18	17	17	---	---	---
24	---	---	---	---	---	---	18	17	18	---	---	---
25	---	---	---	---	---	---	19	18	18	---	---	---
26	---	---	---	---	---	---	20	18	19	---	---	---
27	---	---	---	---	---	---	20	18	19	---	---	---
28	---	---	---	---	---	---	19	15	16	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	15	14	15	12	11	12	12	11	11
2	---	---	---	16	15	15	12	11	11	12	11	11
3	---	---	---	16	15	16	11	11	11	12	11	12
4	---	---	---	21	15	18	11	10	11	12	12	12
5	---	---	---	16	14	15	11	10	11	12	12	12
6	---	---	---	14	13	14	12	11	11	13	12	12
7	15	14	14	14	13	14	12	11	12	12	12	12
8	14	13	14	14	13	14	13	11	12	13	12	12
9	14	14	14	14	13	13	12	11	11	12	12	12
10	15	14	14	14	13	13	12	12	12	12	12	12
11	15	14	14	14	12	13	12	11	12	13	12	12
12	16	14	15	14	12	14	11	11	11	13	12	12
13	17	14	15	14	13	13	11	11	11	14	12	13
14	15	14	14	14	12	13	12	10	11	14	12	13
15	14	14	14	13	12	12	11	10	10	12	11	12
16	14	13	14	13	12	12	11	10	10	12	11	11
17	14	13	14	13	12	13	11	10	10	11	10	11
18	14	13	14	13	12	13	11	10	10	11	10	10
19	16	14	15	13	13	13	11	10	11	11	10	10
20	15	15	15	14	13	13	11	9	10	11	10	11
21	15	15	15	14	13	13	10	9	10	12	11	11
22	15	15	15	14	13	13	11	10	10	11	11	11
23	16	15	15	14	13	13	13	11	12	11	10	10
24	15	15	15	18	13	14	11	10	11	11	10	10
25	15	14	15	14	12	13	11	10	10	11	10	11
26	15	14	15	12	12	12	11	10	10	11	10	11
27	16	15	15	12	11	12	11	10	10	10	10	10
28	17	15	16	12	11	12	10	10	10	10	9	10
29	17	15	16	12	11	12	11	10	10	10	9	9
30	16	15	15	12	11	12	11	10	11	11	10	10
31	15	15	15	---	---	---	11	11	11	11	10	10
MONTH	---	---	---	21	11	13	13	9	11	14	9	11
		FEBRUARY			MARCH			APRIL			MAY	
1	11	10	10	13	13	13	15	15	15	---	---	---
2	11	10	10	13	13	13	16	15	15	---	---	---
3	11	10	11	13	12	13	15	15	15	---	---	---
4	11	10	10	13	12	12	15	15	15	---	---	---
5	11	10	10	13	12	12	15	15	15	---	---	---
6	11	10	10	13	13	13	16	15	15	---	---	---
7	11	10	11	14	13	13	16	15	15	---	---	---
8	14	11	11	14	14	14	16	15	15	---	---	---
9	11	11	11	14	13	13	16	15	15	---	---	---
10	11	10	10	14	13	13	16	15	15	---	---	---
11	10	10	10	14	13	13	16	15	16	---	---	---
12	11	10	10	14	13	13	16	15	16	---	---	---
13	11	10	10	14	13	14	17	15	16	---	---	---
14	11	10	10	14	12	13	17	16	16	---	---	---
15	11	10	11	14	12	13	16	15	16	---	---	---
16	11	11	11	15	14	15	16	15	16	---	---	---
17	11	10	11	15	14	14	16	15	15	---	---	---
18	11	10	10	15	14	15	16	15	16	---	---	---
19	11	10	10	15	13	14	17	16	16	---	---	---
20	11	10	10	14	13	14	16	16	16	---	---	---
21	12	11	11	15	13	14	17	16	16	---	---	---
22	12	11	11	15	14	14	17	16	16	---	---	---
23	12	11	11	16	15	15	17	16	17	---	---	---
24	14	11	13	15	15	15	17	16	16	---	---	---
25	14	14	14	15	15	15	17	16	17	17	17	17
26	14	14	14	16	15	15	17	16	17	17	17	17
27	14	13	13	17	15	15	17	17	17	18	17	17
28	14	12	13	17	15	16	17	17	17	20	17	18
29	---	---	---	15	15	15	18	17	17	22	18	18
30	---	---	---	15	15	15	---	---	---	23	18	18
31	---	---	---	15	15	15	---	---	---	19	18	18
MONTH	14	10	11	17	12	14	---	---	---	---	---	---

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	20	19	19	26	19	19	21	20	21	24	18	19
2	20	18	20	25	20	21	21	20	20	19	18	19
3	20	16	20	27	21	21	21	20	21	19	19	19
4	20	19	20	23	22	22	22	21	21	19	19	19
5	21	19	20	27	23	23	23	21	22	19	18	19
6	20	20	20	24	23	23	23	22	23	18	18	18
7	22	20	21	27	16	20	23	22	22	18	18	18
8	23	21	22	23	17	18	24	21	22	19	18	18
9	23	22	22	22	17	18	21	20	21	19	18	19
10	23	22	22	22	18	18	21	21	21	19	19	19
11	24	23	23	22	18	19	21	20	20	20	19	19
12	---	---	---	24	22	23	21	20	21	20	19	19
13	---	---	---	24	21	22	21	19	20	20	19	20
14	---	---	---	23	21	21	20	18	19	20	20	20
15	---	---	---	22	21	22	20	19	19	21	20	20
16	---	---	---	22	21	21	20	19	20	22	20	21
17	---	---	---	21	21	21	20	19	19	21	21	21
18	---	---	---	22	20	21	21	19	20	21	20	20
19	---	---	---	25	21	23	22	20	21	21	20	20
20	---	---	---	25	15	22	28	22	23	21	20	20
21	---	---	---	17	16	16	27	21	23	21	20	21
22	---	---	---	18	16	16	24	22	23	22	21	21
23	---	---	---	18	17	17	24	22	22	22	21	21
24	---	---	---	17	17	17	23	22	22	23	21	22
25	---	---	---	17	17	17	24	22	22	21	16	17
26	---	---	---	17	17	17	25	21	22	19	17	18
27	---	---	---	24	17	18	22	21	22	18	17	18
28	---	---	---	19	16	18	23	20	21	18	17	17
29	17	16	16	22	18	20	23	21	21	19	18	18
30	19	17	18	21	20	21	28	21	25	19	18	19
31	---	---	---	21	19	20	24	19	21	---	---	---
MONTH	---	---	---	27	15	20	28	18	21	24	16	19

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	19	18	19	17	17	17	---	---	---	---	---	---
2	19	18	19	17	17	17	---	---	---	---	---	---
3	20	19	19	17	17	17	---	---	---	---	---	---
4	20	19	20	17	17	17	---	---	---	---	---	---
5	21	19	20	18	17	17	---	---	---	---	---	---
6	33	21	26	18	17	18	---	---	---	---	---	---
7	33	20	27	18	17	18	---	---	---	---	---	---
8	22	20	21	18	17	17	---	---	---	---	---	---
9	21	20	20	18	17	18	---	---	---	---	---	---
10	22	20	21	21	18	20	---	---	---	---	---	---
11	21	19	20	19	18	18	---	---	---	---	---	---
12	20	19	19	18	17	18	---	---	---	---	---	---
13	20	18	19	23	17	17	---	---	---	---	---	---
14	20	18	19	23	17	18	---	---	---	---	---	---
15	20	18	19	22	17	18	---	---	---	---	---	---
16	19	17	18	29	21	24	---	---	---	---	---	---
17	---	---	---	21	16	20	---	---	---	---	---	---
18	18	17	17	17	16	16	---	---	---	---	---	---
19	18	17	18	19	16	16	---	---	---	---	---	---
20	18	18	18	16	16	16	---	---	---	---	---	---
21	18	17	18	22	16	18	---	---	---	---	---	---
22	18	18	18	22	18	19	---	---	---	---	---	---
23	20	17	18	18	17	18	---	---	---	---	---	---
24	18	17	17	18	17	17	---	---	---	---	---	---
25	18	17	17	17	16	16	---	---	---	---	---	---
26	17	17	17	17	16	16	---	---	---	---	---	---
27	17	16	17	17	16	16	---	---	---	---	---	---
28	17	17	17	27	17	20	---	---	---	---	---	---
29	17	16	17	33	15	19	---	---	---	---	---	---
30	17	16	17	15	14	14	---	---	---	---	---	---
31	17	16	17	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	33	14	18	---	---	---	---	---	---

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	7.2	6.8	7.0	---	---	---
5	---	---	---	---	---	---	7.0	6.9	7.0	---	---	---
6	---	---	---	---	---	---	7.2	6.6	6.9	---	---	---
7	---	---	---	---	---	---	7.3	6.6	6.9	---	---	---
8	---	---	---	---	---	---	7.3	6.6	7.0	---	---	---
9	---	---	---	---	---	---	7.4	6.6	6.8	---	---	---
10	---	---	---	---	---	---	7.3	6.6	6.8	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	7.0	6.9	7.0	---	---	---
18	---	---	---	---	---	---	7.1	6.5	6.8	---	---	---
19	---	---	---	---	---	---	6.8	6.4	6.5	---	---	---
20	---	---	---	---	---	---	6.8	6.5	6.7	---	---	---
21	---	---	---	---	---	---	6.8	6.8	6.8	---	---	---
22	---	---	---	---	---	---	6.9	6.8	6.8	---	---	---
23	---	---	---	---	---	---	6.8	6.7	6.8	---	---	---
24	---	---	---	---	---	---	6.9	6.7	6.8	---	---	---
25	---	---	---	---	---	---	6.9	6.6	6.8	---	---	---
26	---	---	---	---	---	---	6.8	6.5	6.8	---	---	---
27	---	---	---	---	---	---	6.8	6.4	6.7	---	---	---
28	---	---	---	---	---	---	6.8	6.4	6.7	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	6.3	6.1	6.2	6.6	6.4	6.5	6.5	6.4	6.5
2	---	---	---	6.2	6.1	6.2	6.5	6.4	6.5	6.6	6.4	6.5
3	---	---	---	6.2	6.1	6.1	6.5	6.5	6.5	6.4	6.4	6.4
4	---	---	---	6.3	6.0	6.1	6.5	6.5	6.5	6.4	6.3	6.4
5	---	---	---	6.5	5.9	6.3	6.5	6.4	6.5	6.5	6.4	6.4
6	---	---	---	6.6	6.4	6.5	6.5	6.4	6.5	6.4	6.4	6.4
7	---	---	---	6.6	6.5	6.6	6.4	6.4	6.4	6.5	6.4	6.4
8	---	---	---	6.6	6.4	6.5	6.4	6.4	6.4	6.4	6.4	6.4
9	---	---	---	6.7	6.5	6.6	6.5	6.4	6.4	6.5	6.4	6.4
10	6.0	6.0	6.0	6.7	6.6	6.6	6.5	6.2	6.4	6.5	6.4	6.4
11	6.1	6.0	6.0	6.7	6.6	6.6	6.4	6.4	6.4	6.5	6.4	6.4
12	6.2	6.0	6.1	6.6	6.4	6.5	6.4	6.4	6.4	6.4	6.4	6.4
13	6.1	6.0	6.0	6.6	6.5	6.5	6.5	6.3	6.5	6.4	6.3	6.4
14	6.1	6.0	6.1	6.6	6.6	6.6	6.5	6.5	6.5	6.5	6.3	6.4
15	6.2	6.0	6.1	6.6	6.6	6.6	6.5	6.5	6.5	6.5	6.4	6.4
16	6.2	6.0	6.1	6.6	6.6	6.6	6.6	6.5	6.5	6.5	6.4	6.5
17	6.2	6.0	6.0	6.6	6.5	6.6	6.6	6.4	6.5	6.5	6.4	6.5
18	6.2	6.1	6.2	6.6	6.5	6.5	6.5	6.4	6.4	6.5	6.3	6.4
19	6.2	6.1	6.2	6.6	6.4	6.5	6.5	6.4	6.4	6.4	6.3	6.3
20	6.2	6.1	6.2	6.5	6.4	6.4	6.5	6.4	6.4	6.4	6.2	6.3
21	6.3	6.2	6.2	6.5	6.4	6.5	6.5	6.4	6.4	6.3	6.3	6.3
22	6.2	6.2	6.2	6.6	6.4	6.5	6.5	6.4	6.5	6.3	6.3	6.3
23	6.2	6.2	6.2	6.6	6.3	6.4	6.5	6.3	6.4	6.4	6.3	6.3
24	6.2	6.1	6.2	6.6	6.4	6.5	6.5	6.4	6.5	6.4	6.3	6.3
25	6.3	6.2	6.2	6.6	6.5	6.6	6.6	6.5	6.5	6.4	6.3	6.3
26	6.2	6.1	6.2	6.6	6.6	6.6	6.6	6.5	6.5	---	---	---
27	6.2	6.1	6.2	6.6	6.5	6.6	6.6	6.5	6.5	6.4	6.3	6.3
28	6.2	6.1	6.2	6.6	6.5	6.5	6.6	6.5	6.5	6.4	6.3	6.3
29	6.2	6.1	6.2	6.6	6.5	6.6	6.6	6.4	6.5	6.3	6.3	6.3
30	6.3	6.2	6.2	6.6	6.6	6.6	6.6	6.5	6.5	6.3	6.3	6.3
31	6.3	6.2	6.3	---	---	---	6.5	6.5	6.5	6.3	6.3	6.3
MONTH	---	---	---	6.7	5.9	6.5	6.6	6.2	6.5	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	6.3	6.3	6.3	6.5	6.4	6.4	6.5	6.5	6.5	6.7	6.6	6.6
2	6.4	6.3	6.4	6.5	6.4	6.5	6.5	6.5	6.5	6.7	6.6	6.6
3	6.4	6.4	6.4	6.5	6.5	6.5	6.5	6.4	6.5	6.7	6.6	6.6
4	6.4	6.4	6.4	6.6	6.5	6.5	6.5	6.4	6.5	6.7	6.6	6.6
5	6.4	6.4	6.4	6.6	6.5	6.5	6.6	6.5	6.5	6.7	6.5	6.6
6	6.4	6.4	6.4	6.6	6.5	6.5	6.6	6.5	6.5	6.6	6.5	6.6
7	6.4	6.4	6.4	6.6	6.5	6.5	6.5	6.5	6.5	6.6	6.5	6.6
8	6.4	6.3	6.4	6.6	6.5	6.5	6.5	6.4	6.5	6.6	6.5	6.6
9	6.4	6.3	6.4	6.5	6.4	6.4	6.6	6.5	6.5	6.6	6.5	6.6
10	6.4	6.4	6.4	6.5	6.4	6.4	6.6	6.5	6.5	6.6	6.4	6.5
11	6.4	6.4	6.4	6.5	6.4	6.4	6.6	6.5	6.5	6.6	6.5	6.5
12	6.4	6.4	6.4	6.5	6.4	6.5	6.6	6.4	6.5	6.6	6.5	6.5
13	6.4	6.4	6.4	6.5	6.4	6.4	6.5	6.4	6.5	6.6	6.5	6.5
14	6.5	6.4	6.5	6.5	6.4	6.5	6.5	6.4	6.5	6.6	6.5	6.5
15	6.5	6.5	6.5	6.5	6.4	6.5	6.6	6.5	6.5	6.6	6.5	6.5
16	6.5	6.5	6.5	6.5	6.4	6.5	6.6	6.5	6.5	6.6	6.5	6.5
17	6.5	6.5	6.5	6.5	6.4	6.4	6.6	6.2	6.5	6.6	6.5	6.5
18	6.5	6.5	6.5	6.4	6.3	6.4	6.6	6.5	6.5	6.6	6.5	6.5
19	6.5	6.4	6.5	6.4	6.3	6.4	6.6	6.5	6.5	6.6	6.5	6.5
20	6.5	6.5	6.5	6.4	6.3	6.4	6.6	6.5	6.5	6.5	6.3	6.4
21	6.5	6.4	6.4	6.4	6.1	6.4	6.7	6.5	6.6	6.5	6.5	6.5
22	6.5	6.4	6.5	6.4	6.4	6.4	6.7	6.6	6.6	6.6	6.5	6.5
23	6.5	6.5	6.5	6.4	6.3	6.4	6.7	6.6	6.6	6.6	6.5	6.5
24	6.6	6.5	6.6	6.4	6.4	6.4	6.6	6.6	6.6	6.6	6.4	6.5
25	6.6	6.6	6.6	6.5	6.4	6.4	6.7	6.6	6.6	6.6	6.5	6.5
26	6.6	6.6	6.6	6.5	6.4	6.4	6.6	6.6	6.6	6.6	6.5	6.5
27	6.6	6.6	6.6	6.5	6.2	6.4	6.6	6.6	6.6	6.6	6.5	6.5
28	6.6	6.4	6.5	6.4	6.1	6.3	6.6	6.6	6.6	6.6	6.5	6.5
29	---	---	---	6.5	6.4	6.4	6.6	6.6	6.6	6.6	6.5	6.5
30	---	---	---	6.5	6.4	6.5	6.6	6.6	6.6	6.6	6.5	6.5
31	---	---	---	6.5	6.4	6.5	---	---	---	6.6	6.5	6.5
MONTH	6.6	6.3	6.5	6.6	6.1	6.4	6.7	6.2	6.5	6.7	6.3	6.5

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.6	6.4	6.5	6.8	6.6	6.7	6.5	6.4	6.4	6.6	6.5	6.6
2	6.5	6.4	6.5	6.9	6.7	6.8	6.5	6.4	6.4	6.7	6.6	6.6
3	6.5	6.4	6.5	6.9	6.8	6.8	6.5	6.4	6.4	6.7	6.7	6.7
4	6.5	6.4	6.5	6.9	6.8	6.9	6.5	6.4	6.5	6.7	6.6	6.7
5	6.5	6.4	6.5	6.9	6.8	6.9	6.5	6.4	6.5	6.7	6.7	6.7
6	6.5	6.4	6.5	6.9	6.8	6.9	6.5	6.4	6.5	6.7	6.7	6.7
7	6.6	6.4	6.5	6.9	6.4	6.7	6.5	6.4	6.5	6.7	6.7	6.7
8	6.5	6.4	6.5	7.0	6.8	6.9	6.4	6.3	6.4	6.7	6.6	6.7
9	6.6	6.4	6.5	7.0	6.8	6.8	6.4	6.3	6.3	6.7	6.6	6.7
10	6.6	6.4	6.5	6.9	6.8	6.8	6.4	6.3	6.3	6.7	6.6	6.7
11	6.6	6.4	6.5	6.9	6.7	6.8	6.4	6.4	6.4	6.8	6.7	6.7
12	6.6	6.2	6.4	6.8	6.6	6.7	6.4	6.3	6.4	6.8	6.6	6.6
13	6.5	6.2	6.4	6.8	6.6	6.7	6.3	5.8	6.3	6.7	6.6	6.6
14	6.6	6.4	6.5	6.8	6.7	6.7	6.4	6.3	6.4	6.7	6.6	6.6
15	6.6	6.5	6.6	6.7	6.7	6.7	6.4	6.3	6.4	6.7	6.6	6.6
16	6.6	6.5	6.6	6.7	6.6	6.7	6.4	6.2	6.3	6.7	6.6	6.6
17	6.6	6.6	6.6	6.7	6.6	6.6	6.3	6.2	6.3	6.7	6.6	6.7
18	6.6	6.5	6.6	6.7	6.6	6.6	6.4	6.2	6.3	6.7	6.5	6.6
19	6.6	6.1	6.5	6.6	6.5	6.6	6.5	6.3	6.4	6.7	6.5	6.6
20	6.5	6.4	6.5	6.7	6.6	6.6	6.5	6.3	6.4	6.7	6.6	6.7
21	6.5	6.5	6.5	6.6	6.4	6.5	6.5	6.4	6.4	6.8	6.6	6.7
22	6.6	6.5	6.6	6.5	6.4	6.4	6.5	6.4	6.4	6.8	6.5	6.6
23	6.6	6.6	6.6	6.4	6.3	6.3	6.5	6.4	6.4	6.6	6.4	6.5
24	6.7	6.6	6.6	6.4	6.3	6.4	6.4	6.3	6.3	6.8	6.4	6.6
25	6.7	6.6	6.6	6.4	6.3	6.3	6.4	6.3	6.4	6.8	6.7	6.8
26	6.6	6.5	6.6	6.4	6.3	6.3	6.4	6.3	6.3	6.8	6.7	6.8
27	6.6	6.3	6.5	6.4	5.8	6.3	6.4	6.3	6.4	6.8	6.8	6.8
28	6.6	6.0	6.4	6.3	6.2	6.3	6.4	6.2	6.3	6.8	6.8	6.8
29	6.7	6.1	6.4	6.3	6.2	6.3	6.4	6.3	6.4	6.9	6.8	6.8
30	6.7	6.4	6.6	6.5	6.3	6.4	6.4	6.0	6.3	6.8	6.7	6.8
31	---	---	---	6.5	6.4	6.5	6.6	6.4	6.5	---	---	---
MONTH	6.7	6.0	6.5	7.0	5.8	6.6	6.6	5.8	6.4	6.9	6.4	6.7

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.8	6.8	6.8	6.8	6.7	6.7	---	---	---	---	---	---
2	6.9	6.7	6.8	6.8	6.7	6.8	---	---	---	---	---	---
3	6.8	6.7	6.8	6.8	6.7	6.7	---	---	---	---	---	---
4	6.8	6.6	6.7	6.8	6.7	6.8	---	---	---	---	---	---
5	6.8	6.7	6.8	6.9	6.8	6.8	---	---	---	---	---	---
6	6.7	6.3	6.6	6.9	6.8	6.8	---	---	---	---	---	---
7	6.7	6.5	6.6	6.9	6.8	6.8	---	---	---	---	---	---
8	6.8	6.6	6.7	6.9	6.8	6.8	---	---	---	---	---	---
9	6.8	6.7	6.8	6.9	6.8	6.9	---	---	---	---	---	---
10	6.8	6.7	6.8	6.9	6.8	6.8	---	---	---	---	---	---
11	6.8	6.7	6.8	6.8	6.7	6.8	---	---	---	---	---	---
12	6.8	6.7	6.8	6.9	6.7	6.8	---	---	---	---	---	---
13	6.8	6.8	6.8	6.9	6.8	6.9	---	---	---	---	---	---
14	6.8	6.8	6.8	6.9	6.8	6.9	---	---	---	---	---	---
15	6.8	6.7	6.8	7.0	6.9	6.9	---	---	---	---	---	---
16	6.8	6.7	6.7	7.0	6.9	6.9	---	---	---	---	---	---
17	6.7	6.6	6.6	6.9	6.8	6.9	---	---	---	---	---	---
18	6.7	6.6	6.7	6.8	6.7	6.8	---	---	---	---	---	---
19	6.8	6.7	6.7	6.8	6.7	6.8	---	---	---	---	---	---
20	6.8	6.7	6.7	6.9	6.8	6.8	---	---	---	---	---	---
21	6.8	6.7	6.8	6.9	6.6	6.8	---	---	---	---	---	---
22	6.8	6.7	6.8	6.6	6.3	6.4	---	---	---	---	---	---
23	6.8	6.6	6.7	6.4	6.3	6.3	---	---	---	---	---	---
24	6.8	6.6	6.7	6.5	6.4	6.4	---	---	---	---	---	---
25	6.6	6.6	6.6	6.5	6.2	6.4	---	---	---	---	---	---
26	6.7	6.6	6.7	6.5	6.3	6.4	---	---	---	---	---	---
27	6.7	6.6	6.6	6.5	6.3	6.4	---	---	---	---	---	---
28	6.7	6.6	6.7	6.4	6.3	6.4	---	---	---	---	---	---
29	6.7	6.6	6.7	6.7	6.3	6.6	---	---	---	---	---	---
30	6.7	6.6	6.6	6.7	6.5	6.6	---	---	---	---	---	---
31	6.8	6.6	6.7	---	---	---	---	---	---	---	---	---
MONTH	6.9	6.3	6.7	7.0	6.2	6.7	---	---	---	---	---	---

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	17.7	17.0	17.3
3	---	---	---	---	---	---	---	---	---	17.6	16.7	17.1
4	---	---	---	---	---	---	19.1	16.9	18.0	17.7	16.0	16.9
5	---	---	---	---	---	---	18.1	17.0	17.6	18.1	15.9	16.8
6	---	---	---	---	---	---	17.9	15.4	16.8	17.5	16.4	17.0
7	---	---	---	---	---	---	16.7	13.4	15.1	18.1	17.3	17.7
8	---	---	---	---	---	---	16.8	13.5	15.2	18.1	17.0	17.4
9	---	---	---	---	---	---	17.0	14.4	15.8	17.5	16.5	16.9
10	---	---	---	---	---	---	17.3	15.0	16.3	17.4	15.9	16.6
11	---	---	---	---	---	---	17.8	15.8	16.6	17.6	16.3	16.9
12	---	---	---	---	---	---	16.8	16.3	16.5	17.6	16.1	16.7
13	---	---	---	---	---	---	16.6	15.5	16.0	16.8	15.6	16.2
14	---	---	---	---	---	---	16.9	14.9	15.9	17.1	15.2	16.2
15	---	---	---	---	---	---	17.5	15.9	16.5	17.3	15.9	16.6
16	---	---	---	---	---	---	---	---	---	18.9	16.7	17.1
17	---	---	---	---	---	---	17.2	16.1	16.6	18.8	16.5	17.3
18	---	---	---	---	---	---	18.1	16.2	17.0	16.5	15.3	16.0
19	---	---	---	---	---	---	17.9	16.0	17.0	16.1	14.0	15.0
20	---	---	---	---	---	---	18.2	16.5	17.4	15.4	13.3	14.3
21	---	---	---	---	---	---	18.2	16.8	17.5	15.7	12.7	14.0
22	---	---	---	---	---	---	17.6	16.8	17.1	---	---	---
23	---	---	---	---	---	---	17.7	16.6	17.2	---	---	---
24	---	---	---	---	---	---	18.4	16.7	17.4	---	---	---
25	---	---	---	---	---	---	18.6	16.7	17.5	---	---	---
26	---	---	---	---	---	---	18.8	16.7	17.7	---	---	---
27	---	---	---	---	---	---	19.0	17.0	18.0	---	---	---
28	---	---	---	---	---	---	19.1	17.4	18.1	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	16.5	13.6	14.9	10.5	7.6	9.4	9.4	6.6	7.9
2	---	---	---	17.6	15.1	16.0	9.3	6.3	7.6	9.8	7.3	8.5
3	---	---	---	16.1	15.4	15.8	8.6	6.5	7.3	10.2	7.9	9.0
4	---	---	---	15.9	13.5	15.2	8.4	5.7	6.9	11.1	8.7	9.8
5	---	---	---	13.5	10.8	12.3	8.8	6.1	7.4	10.8	8.5	9.6
6	---	---	---	12.8	9.7	11.1	9.6	8.4	9.0	10.6	9.2	9.9
7	16.0	14.0	14.9	13.4	9.9	11.5	12.3	9.5	10.8	9.8	8.1	9.0
8	15.1	12.6	13.9	13.0	10.4	11.7	10.9	8.8	9.8	11.4	8.4	10
9	15.1	14.0	14.5	11.7	8.8	10.1	10.2	8.9	9.6	9.8	7.3	8.4
10	16.1	14.0	15.0	11.1	8.4	9.7	11.4	9.6	10.4	10.0	6.9	8.3
11	16.3	14.5	15.3	10.7	8.7	9.7	9.6	8.0	8.9	10.3	7.7	8.9
12	16.3	14.1	15.1	12.0	10.6	11.4	8.7	7.2	7.9	10.9	8.3	9.6
13	15.6	14.4	15.0	12.1	9.7	11.3	8.4	6.0	7.5	11.9	10.4	11.2
14	15.0	13.6	14.3	10.7	8.3	9.3	6.0	4.1	5.2	11.1	7.3	9.3
15	14.1	11.5	13.0	10.4	7.1	8.7	5.6	3.6	4.5	8.4	6.4	7.3
16	13.2	10.6	11.6	10.2	7.6	8.9	6.1	3.2	4.5	8.2	5.3	6.8
17	12.7	9.5	11.1	11.7	8.6	10.2	6.9	4.4	5.4	5.3	2.8	4.0
18	13.5	10.9	12.2	12.5	9.5	11.0	6.7	4.1	5.2	4.1	1.8	2.9
19	14.5	13.4	13.9	13.4	11.1	12.1	5.7	2.7	4.9	4.3	2.5	3.3
20	15.5	13.4	14.3	13.3	11.8	12.4	3.2	1.1	2.2	6.1	2.9	4.4
21	15.7	14.0	14.7	12.8	11.8	12.3	5.2	1.9	3.6	7.6	4.8	6.0
22	15.4	14.2	14.6	13.6	11.8	12.6	7.1	3.8	5.4	6.3	4.0	5.5
23	14.6	13.6	14.0	13.2	12.8	13.0	8.6	5.3	7.4	4.0	1.3	2.2
24	15.3	13.3	14.0	13.6	12.6	13.0	5.8	4.5	5.0	4.0	0.4	2.1
25	15.4	12.2	13.7	12.6	8.6	10.8	5.2	3.6	4.5	5.9	2.4	3.8
26	15.3	12.3	13.6	9.9	7.7	8.7	5.8	4.1	4.7	7.8	4.0	5.6
27	15.8	13.4	14.4	9.0	7.5	8.2	5.4	3.4	4.3	6.5	4.4	5.4
28	15.9	14.5	15.0	9.9	8.0	8.8	5.7	3.1	4.3	4.8	3.4	4.0
29	16.0	14.4	14.9	10.0	8.0	8.9	6.8	3.7	5.3	4.0	2.3	3.2
30	16.7	14.4	15.3	10.2	8.2	9.2	8.3	5.4	6.8	5.9	4.0	4.8
31	16.6	14.2	15.2	---	---	---	8.8	6.5	7.6	6.0	4.9	5.3
MONTH	---	---	---	17.6	7.1	11.3	12.3	1.1	6.6	11.9	0.4	6.6
		FEBRUARY			MARCH			APRIL			MAY	
1	6.0	4.5	5.2	5.9	3.5	4.8	11.4	10.2	10.9	14.6	10.3	12.0
2	5.6	4.2	4.7	6.6	2.6	4.2	11.3	7.9	9.9	13.0	9.4	11.0
3	6.1	4.6	5.2	7.1	3.3	4.7	12.4	7.0	9.2	13.8	9.3	11.2
4	7.1	4.6	5.5	7.9	3.1	5.3	13.8	8.0	10.5	13.8	9.0	11.3
5	7.6	3.8	5.4	9.4	5.1	6.8	15.0	8.6	11.4	11.3	10.3	10.8
6	7.6	4.4	5.9	9.8	5.2	7.1	15.1	10.1	12.2	14.5	10.0	11.9
7	8.1	4.8	6.4	9.9	4.9	7.4	12.3	11.8	12.0	15.2	10.0	12.4
8	9.3	6.6	7.9	8.6	4.8	7.3	13.8	11.1	12.1	16.0	11.2	13.4
9	8.9	7.4	8.1	7.8	3.9	5.6	16.3	10.8	12.9	16.0	11.8	13.9
10	8.3	4.1	6.5	8.6	4.7	6.4	16.9	10.2	13.1	15.5	13.0	13.8
11	5.5	2.7	4.0	8.7	4.8	6.3	16.6	11.2	13.7	16.3	12.2	14.0
12	7.4	3.8	5.3	10.6	4.9	7.4	13.5	11.9	12.7	16.9	12.9	14.7
13	6.5	4.5	5.5	11.8	7.1	9.1	11.9	10.3	11.3	17.0	13.7	15.1
14	7.7	5.9	6.6	9.6	6.7	8.6	14.4	9.2	11.3	16.6	14.3	15.2
15	8.9	5.4	6.9	9.8	5.4	7.4	15.1	9.0	11.6	14.6	13.4	14.2
16	9.1	6.6	7.8	7.8	6.5	7.1	14.6	8.7	11.3	14.7	11.7	13.3
17	7.9	4.9	6.4	6.6	5.4	6.1	15.1	8.2	11.2	14.9	11.6	13.4
18	7.0	3.6	5.0	9.3	4.5	6.5	16.0	9.4	12.3	15.6	13.1	14.4
19	8.0	3.6	5.5	9.2	4.7	6.7	15.5	10.7	12.9	15.6	14.0	14.8
20	6.5	5.8	6.2	10.9	5.2	7.7	15.9	11.3	13.4	14.9	13.9	14.3
21	8.8	6.4	7.4	9.8	6.0	8.0	15.7	11.2	13.2	15.6	13.3	14.2
22	10.8	6.7	8.3	8.3	7.2	7.8	14.7	11.9	13.1	15.8	13.0	14.3
23	10.8	6.6	8.4	12.6	8.0	9.8	12.9	9.7	11.6	16.2	13.7	14.8
24	8.7	7.8	8.4	13.0	8.6	10.2	11.2	8.0	9.3	14.7	13.1	14.0
25	9.7	6.3	7.7	13.7	8.3	10.5	13.7	7.9	10.2	14.3	12.0	13.1
26	9.3	5.0	6.9	14.0	9.0	11.1	10.9	8.7	10	15.2	11.7	13.4
27	7.4	5.7	6.6	11.2	10.1	10.6	12.7	8.8	10.6	15.0	12.2	13.7
28	6.6	4.6	5.7	10.4	9.1	9.8	12.3	8.4	10.2	14.7	12.8	13.7
29	---	---	---	13.2	8.4	10.3	12.8	9.7	11.2	13.9	11.7	13.0
30	---	---	---	14.0	8.6	10.9	13.2	11.3	12.1	14.7	13.0	13.8
31	---	---	---	12.2	10.2	10.9	---	---	---	15.3	12.8	14.0
MONTH	10.8	2.7	6.4	14.0	2.6	7.8	16.9	7.0	11.6	17.0	9.0	13.5

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	14.4	13.2	13.9	17.7	16.4	17.0	18.4	17.0	17.7	18.8	16.7	17.7
2	13.6	13.1	13.4	17.1	16.0	16.6	18.6	16.8	17.6	18.7	16.1	17.4
3	14.3	13.4	13.8	17.2	16.1	16.6	18.6	16.4	17.5	18.6	16.6	17.5
4	15.8	13.8	14.7	17.3	16.3	16.8	18.9	16.6	17.7	18.0	15.2	16.6
5	16.5	14.3	15.4	18.3	16.5	17.3	18.6	17.0	17.8	17.8	15.8	16.8
6	16.7	14.8	15.8	17.4	16.6	17.0	18.5	16.9	17.7	17.5	15.5	16.4
7	16.9	15.2	16.0	16.9	16.3	16.7	17.7	17.2	17.4	17.4	14.9	16.2
8	16.5	15.7	16.1	17.4	15.6	16.4	17.4	17.1	17.3	17.5	14.6	16.0
9	17.7	15.6	16.4	17.5	15.2	16.3	18.2	17.1	17.6	17.6	14.7	16.1
10	17.6	15.9	16.7	17.7	16.1	16.9	18.4	17.2	17.7	17.5	14.8	16.2
11	16.8	16.2	16.5	18.3	16.8	17.4	19.0	17.1	18.0	17.8	15.6	16.6
12	16.9	16.3	16.5	17.9	17.1	17.5	19.1	17.1	18.0	17.7	14.8	16.3
13	17.4	16.1	16.6	17.7	16.7	17.1	19.3	17.4	18.3	17.8	15.0	16.4
14	17.9	15.4	16.6	17.9	16.6	17.2	19.5	17.5	18.4	17.6	15.2	16.4
15	18.4	16.3	17.1	17.7	16.8	17.3	19.7	17.6	18.6	18.1	15.7	16.9
16	17.8	15.4	16.5	18.2	16.9	17.5	19.1	17.8	18.5	17.3	16.2	16.8
17	17.2	15.3	16.1	18.8	17.1	17.8	19.2	17.8	18.4	18.1	16.2	17.0
18	16.0	14.1	15.2	18.6	17.2	17.8	18.9	18.1	18.4	17.7	15.3	16.5
19	17.0	14.7	15.5	19.2	17.3	18.0	19.2	17.9	18.5	17.8	15.1	16.4
20	15.5	14.5	15.0	19.0	17.1	17.8	19.5	17.9	18.7	18.1	15.6	16.8
21	15.7	14.1	14.9	18.9	17.1	17.9	20.2	18.1	19.0	18.2	16.0	17.1
22	16.4	14.2	15.3	18.9	17.3	18.0	19.3	17.8	18.6	18.4	16.5	17.4
23	17.3	14.9	16.1	19.2	17.5	18.2	18.8	18.0	18.4	18.3	16.1	17.2
24	17.6	14.9	16.2	18.6	17.0	17.8	19.3	17.7	18.3	18.1	16.0	17.1
25	17.4	15.2	16.3	19.6	17.3	18.3	19.2	18.0	18.5	18.5	17.4	17.8
26	16.5	16.0	16.2	19.8	17.7	18.7	18.8	17.5	18.1	17.9	17.4	17.6
27	17.8	16.3	16.9	20.4	18.0	18.9	18.6	17.3	17.9	18.4	16.6	17.4
28	18.9	16.4	16.9	18.6	17.8	18.2	19.1	17.4	18.2	17.7	15.6	16.7
29	17.0	15.9	16.3	18.0	17.6	17.8	18.6	17.9	18.3	17.2	15.5	16.8
30	17.6	15.9	16.7	18.2	17.3	17.7	19.4	18.6	19.0	16.3	14.3	15.3
31	---	---	---	18.5	17.4	17.8	19.4	17.6	18.5	---	---	---
MONTH	18.9	13.1	15.9	20.4	15.2	17.5	20.2	16.4	18.1	18.8	14.3	16.8

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	16.8	14.1	15.5	11.9	8.2	10.1	---	---	---	---	---	---
2	16.9	14.8	15.9	12.1	9.1	10.8	---	---	---	---	---	---
3	17.2	15.3	16.1	11.6	7.7	9.6	---	---	---	---	---	---
4	16.9	14.3	15.6	12.3	8.1	10.2	---	---	---	---	---	---
5	16.9	15.4	16.1	13.3	10.2	11.7	---	---	---	---	---	---
6	16.8	16.2	16.5	14.0	11.1	12.3	---	---	---	---	---	---
7	16.9	16.4	16.6	13.6	10.5	11.9	---	---	---	---	---	---
8	17.0	15.8	16.6	13.2	9.5	11.4	---	---	---	---	---	---
9	16.6	15.2	15.9	14.2	10.9	12.5	---	---	---	---	---	---
10	17.1	16.1	16.5	13.0	8.8	11.4	---	---	---	---	---	---
11	17.6	16.0	16.7	10.8	7.4	8.9	---	---	---	---	---	---
12	17.5	16.3	16.8	10.7	7.1	8.8	---	---	---	---	---	---
13	17.8	15.8	16.6	12.0	8.0	10.1	---	---	---	---	---	---
14	16.9	14.7	15.6	13.7	10.8	12.2	---	---	---	---	---	---
15	16.4	14.4	15.2	14.4	12.6	13.5	---	---	---	---	---	---
16	14.9	12.6	14.0	14.3	9.8	12.9	---	---	---	---	---	---
17	14.5	11.4	12.8	9.8	6.7	8.3	---	---	---	---	---	---
18	15.1	11.2	13.0	8.3	5.4	6.7	---	---	---	---	---	---
19	16.1	12.9	14.3	8.5	4.8	6.7	---	---	---	---	---	---
20	16.2	13.3	14.7	9.3	7.3	8.5	---	---	---	---	---	---
21	16.3	13.5	14.9	10.3	9.0	9.8	---	---	---	---	---	---
22	15.3	12.6	14.2	9.0	6.7	8.3	---	---	---	---	---	---
23	13.9	10.8	12.3	8.0	5.9	7.0	---	---	---	---	---	---
24	12.3	9.7	11.1	10.0	7.4	8.4	---	---	---	---	---	---
25	10.6	9.3	9.8	8.1	5.9	6.8	---	---	---	---	---	---
26	11.1	8.6	9.6	8.2	5.0	6.4	---	---	---	---	---	---
27	10.6	7.5	9.1	8.7	6.5	7.7	---	---	---	---	---	---
28	10.8	8.2	9.5	11.4	8.7	9.9	---	---	---	---	---	---
29	10.6	7.3	8.7	12.6	9.6	11.6	---	---	---	---	---	---
30	11.1	6.9	8.8	9.7	7.2	8.7	---	---	---	---	---	---
31	11.6	7.6	9.5	---	---	---	---	---	---	---	---	---
MONTH	17.8	6.9	13.8	14.4	4.8	9.8	---	---	---	---	---	---

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	7.9	7.5	7.7	---	---	---
5	---	---	---	---	---	---	7.8	7.5	7.7	---	---	---
6	---	---	---	---	---	---	8.3	7.6	7.8	---	---	---
7	---	---	---	---	---	---	8.7	8.0	8.3	---	---	---
8	---	---	---	---	---	---	8.7	8.0	8.3	---	---	---
9	---	---	---	---	---	---	8.4	7.9	8.1	---	---	---
10	---	---	---	---	---	---	8.2	7.7	7.9	---	---	---
11	---	---	---	---	---	---	8.0	7.3	7.8	---	---	---
12	---	---	---	---	---	---	7.8	7.6	7.7	---	---	---
13	---	---	---	---	---	---	8.3	7.7	8.1	---	---	---
14	---	---	---	---	---	---	8.5	8.1	8.3	---	---	---
15	---	---	---	---	---	---	8.3	8.0	8.2	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	8.4	7.6	8.0	10.6	9.7	10.2
2	---	---	---	---	---	---	8.9	7.9	8.4	10.4	9.7	10.1
3	---	---	---	---	---	---	8.6	7.8	8.2	10.3	9.5	9.9
4	---	---	---	---	---	---	8.6	7.6	8.1	10.0	9.2	9.6
5	---	---	---	---	---	---	---	---	---	9.9	9.1	9.5
6	---	---	---	---	---	---	---	---	---	9.6	9.1	9.4
7	---	---	---	---	---	---	---	---	---	9.9	9.3	9.6
8	---	---	---	---	---	---	---	---	---	9.7	8.8	9.2
9	---	---	---	---	---	---	---	---	---	10.0	9.1	9.6
10	---	---	---	---	---	---	---	---	---	10.1	9.1	9.6
11	---	---	---	---	---	---	---	---	---	9.9	8.9	9.5
12	---	---	---	---	---	---	---	---	---	9.6	8.8	9.2
13	---	---	---	---	---	---	---	---	---	9.9	9.0	9.2
14	6.8	6.3	6.6	---	---	---	11.7	10.8	11.2	10.7	9.8	10.2
15	7.2	6.5	6.8	---	---	---	11.9	11.0	11.5	10.9	10.2	10.6
16	7.4	6.7	7.1	---	---	---	---	---	---	10.9	10.1	10.5
17	---	---	---	---	---	---	11.9	10.9	11.4	11.9	10.9	11.5
18	---	---	---	---	---	---	11.9	10.9	11.4	12.3	11.4	11.9
19	---	---	---	---	---	---	12.2	11.1	11.4	12.0	11.2	11.6
20	---	---	---	---	---	---	13.0	12.1	12.5	11.8	10.6	11.2
21	---	---	---	---	---	---	12.7	11.4	12.1	11.1	10.2	10.7
22	---	---	---	---	---	---	12.0	10.8	11.5	11.2	10.4	10.7
23	---	---	---	---	---	---	11.4	10.4	10.8	12.4	11.2	11.9
24	---	---	---	9.3	7.2	8.1	11.7	11.1	11.4	12.7	11.4	12.1
25	---	---	---	8.7	7.3	8.0	11.8	11.3	11.5	12.1	10.8	11.5
26	---	---	---	9.2	8.0	8.6	11.6	11.0	11.4	11.4	10.2	10.8
27	---	---	---	9.2	8.2	8.7	11.9	11.2	11.6	11.6	10.7	11.1
28	---	---	---	8.8	7.9	8.3	12.1	11.0	11.6	12.1	11.5	11.8
29	---	---	---	8.8	8.2	8.5	11.8	10.6	11.2	12.4	11.6	12.0
30	---	---	---	8.9	7.9	8.3	11.2	10.1	10.7	11.6	11.0	11.4
31	---	---	---	---	---	---	10.8	9.9	10.3	11.3	10.8	11.1
MONTH	---	---	---	---	---	---	---	---	---	12.7	8.8	10.6
		FEBRUARY			MARCH			APRIL			MAY	
1	11.4	10.7	11.1	12.6	11.7	12.0	9.9	9.2	9.5	9.5	8.2	8.9
2	11.6	11.0	11.3	13.0	11.1	12.2	10.6	9.2	9.9	10.0	8.8	9.4
3	11.4	10.6	11.1	11.9	10.6	11.3	11.1	8.7	10.3	9.9	8.6	9.3
4	11.3	10.5	11.0	12.0	10.2	11.2	10.8	9.2	10.0	---	---	---
5	11.7	10.3	11.0	11.2	9.8	10.6	10.8	9.1	10	---	---	---
6	11.5	10.2	10.8	11.2	9.7	10.5	10.3	9.0	9.7	---	---	---
7	11.2	10.0	10.6	11.2	9.6	10.4	10.0	9.7	9.9	---	---	---
8	10.5	9.5	10.0	11.2	9.9	10.4	10.2	9.2	9.8	---	---	---
9	10.1	9.7	9.9	11.6	10.2	11.0	10.2	8.7	9.6	---	---	---
10	11.1	9.8	10.4	11.3	9.9	10.6	10.4	8.9	9.7	---	---	---
11	11.7	10.6	11.2	11.1	9.8	10.5	10.3	8.9	9.7	9.9	8.9	9.4
12	11.4	10.1	10.8	11.1	9.0	10.2	10.0	9.6	9.8	9.7	8.8	9.3
13	11.1	10.1	10.6	10.3	8.8	9.6	10.6	9.9	10.2	9.5	8.8	9.1
14	10.5	9.9	10.2	10.2	9.3	9.7	11.0	9.7	10.4	9.3	8.7	9.0
15	10.7	9.4	10.1	10.9	9.4	10.1	11.0	9.3	10.2	9.4	9.0	9.2
16	10.1	9.3	9.7	10.6	9.8	10.3	11.2	9.5	10.4	9.8	9.1	9.4
17	10.8	9.8	10.3	10.9	10.3	10.7	11.2	9.4	10.4	9.9	9.0	9.4
18	11.4	10.0	10.8	11.4	9.7	10.6	10.9	9.1	10.0	9.5	8.9	9.1
19	11.4	9.9	10.8	11.1	9.6	10.4	10.3	9.0	9.6	9.2	8.8	9.0
20	11.0	10.5	10.8	10.8	9.5	10.4	9.9	9.0	9.4	9.1	8.8	9.0
21	11.0	10.2	10.6	11.3	10.2	10.7	10.0	8.1	8.9	9.3	8.8	9.0
22	11.3	10.1	10.8	11.1	10.8	10.9	9.1	8.3	8.7	9.4	8.7	9.0
23	11.3	10.0	10.7	10.8	9.6	10.3	9.2	8.6	8.8	9.1	8.2	8.8
24	11.0	10.4	10.7	10.8	9.8	10.4	9.6	8.4	9.0	9.4	8.4	9.0
25	11.5	10.5	11.1	10.9	9.5	10.3	9.2	7.9	8.7	9.7	9.1	9.4
26	12.1	10.7	11.4	10.9	9.6	10.2	9.5	8.6	9.0	9.8	9.0	9.4
27	11.9	11.3	11.6	10.5	10.1	10.3	9.4	8.2	8.9	9.7	9.0	9.3
28	12.1	11.3	11.7	10.4	9.9	10.1	9.8	8.7	9.2	9.6	9.1	9.3
29	---	---	---	10.4	9.2	9.9	9.6	8.6	9.1	9.8	9.2	9.5
30	---	---	---	10.3	8.8	9.6	9.1	8.4	8.8	9.5	9.0	9.3
31	---	---	---	9.8	9.1	9.5	---	---	---	9.6	9.1	9.3
MONTH	12.1	9.3	10.8	13.0	8.8	10.5	11.2	7.9	9.6	---	---	---

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.4	9.1	9.2	---	---	---	---	---	---	8.7	8.3	8.5
2	9.5	9.0	9.4	---	---	---	---	---	---	8.8	8.2	8.5
3	9.4	9.1	9.3	---	---	---	---	---	---	8.6	8.2	8.4
4	9.3	8.7	9.1	---	---	---	---	---	---	9.0	8.4	8.7
5	9.4	8.9	9.1	---	---	---	---	---	---	8.8	8.3	8.6
6	9.2	8.8	9.0	---	---	---	---	---	---	8.9	7.9	8.4
7	9.2	8.8	9.0	---	---	---	---	---	---	8.4	7.8	8.1
8	9.2	8.9	9.0	8.8	8.2	8.5	---	---	---	---	---	---
9	9.2	8.8	9.0	8.8	8.1	8.5	---	---	---	---	---	---
10	9.2	8.8	9.0	8.5	7.7	8.1	---	---	---	---	---	---
11	9.2	8.9	9.1	---	---	---	---	---	---	---	---	---
12	9.2	8.0	8.9	---	---	---	---	---	---	---	---	---
13	9.0	8.0	8.7	---	---	---	---	---	---	---	---	---
14	8.9	8.2	8.6	---	---	---	---	---	---	---	---	---
15	8.9	8.3	8.6	---	---	---	---	---	---	---	---	---
16	9.4	8.5	8.8	---	---	---	---	---	---	---	---	---
17	9.1	8.6	8.9	---	---	---	---	---	---	---	---	---
18	9.4	8.7	9.0	---	---	---	---	---	---	---	---	---
19	9.2	8.5	8.9	---	---	---	---	---	---	---	---	---
20	9.2	8.6	8.9	---	---	---	---	---	---	---	---	---
21	9.1	8.6	8.9	---	---	---	---	---	---	---	---	---
22	9.4	8.6	9.0	---	---	---	---	---	---	---	---	---
23	9.0	8.3	8.7	---	---	---	---	---	---	---	---	---
24	9.0	8.2	8.6	---	---	---	---	---	---	---	---	---
25	8.7	8.1	8.4	---	---	---	---	---	---	---	---	---
26	8.7	8.2	8.4	---	---	---	---	---	---	---	---	---
27	8.9	8.0	8.4	---	---	---	---	---	---	---	---	---
28	9.3	7.7	8.3	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	8.3	7.3	7.8	---	---	---	---	---	---
2	---	---	---	7.8	7.0	7.4	---	---	---	---	---	---
3	---	---	---	8.3	7.2	7.7	---	---	---	---	---	---
4	---	---	---	8.0	6.9	7.5	---	---	---	---	---	---
5	---	---	---	7.6	6.7	7.1	---	---	---	---	---	---
6	---	---	---	7.2	6.5	6.9	---	---	---	---	---	---
7	---	---	---	7.5	6.5	7.0	---	---	---	---	---	---
8	---	---	---	7.6	6.4	7.0	---	---	---	---	---	---
9	---	---	---	7.2	6.1	6.7	---	---	---	---	---	---
10	---	---	---	7.3	6.1	6.6	---	---	---	---	---	---
11	---	---	---	7.7	6.7	7.3	---	---	---	---	---	---
12	---	---	---	8.0	7.0	7.5	---	---	---	---	---	---
13	---	---	---	7.8	6.8	7.4	---	---	---	---	---	---
14	---	---	---	7.3	6.6	7.0	---	---	---	---	---	---
15	---	---	---	7.3	6.6	6.9	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	8.6	7.4	8.0	---	---	---	---	---	---	---	---	---
19	7.7	6.5	7.1	---	---	---	---	---	---	---	---	---
20	7.6	6.4	7.0	---	---	---	---	---	---	---	---	---
21	7.3	6.5	6.9	---	---	---	---	---	---	---	---	---
22	8.2	6.9	7.2	---	---	---	---	---	---	---	---	---
23	8.7	7.8	8.2	---	---	---	---	---	---	---	---	---
24	9.0	8.2	8.6	---	---	---	---	---	---	---	---	---
25	9.0	8.1	8.7	---	---	---	---	---	---	---	---	---
26	8.8	8.1	8.5	---	---	---	---	---	---	---	---	---
27	9.2	8.1	8.6	---	---	---	---	---	---	---	---	---
28	8.8	7.8	8.3	---	---	---	---	---	---	---	---	---
29	9.0	8.0	8.5	---	---	---	---	---	---	---	---	---
30	9.2	7.6	8.4	---	---	---	---	---	---	---	---	---
31	8.7	7.5	8.1	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	89	86	87	---	---	---
5	---	---	---	---	---	---	87	85	86	---	---	---
6	---	---	---	---	---	---	89	85	87	---	---	---
7	---	---	---	---	---	---	90	88	89	---	---	---
8	---	---	---	---	---	---	90	88	89	---	---	---
9	---	---	---	---	---	---	89	87	88	---	---	---
10	---	---	---	---	---	---	88	85	87	---	---	---
11	---	---	---	---	---	---	88	81	86	---	---	---
12	---	---	---	---	---	---	86	84	85	---	---	---
13	---	---	---	---	---	---	90	84	88	---	---	---
14	---	---	---	---	---	---	92	89	90	---	---	---
15	---	---	---	---	---	---	92	89	90	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	78	73	74	94	90	92
2	---	---	---	---	---	---	78	73	75	94	90	92
3	---	---	---	---	---	---	76	71	73	94	90	92
4	---	---	---	---	---	---	74	69	72	93	89	91
5	---	---	---	---	---	---	---	---	---	92	88	90
6	---	---	---	---	---	---	---	---	---	91	88	89
7	---	---	---	---	---	---	---	---	---	91	87	89
8	---	---	---	---	---	---	---	---	---	89	86	87
9	---	---	---	---	---	---	---	---	---	89	86	88
10	---	---	---	---	---	---	---	---	---	90	85	88
11	---	---	---	---	---	---	---	---	---	90	85	87
12	---	---	---	---	---	---	---	---	---	89	84	87
13	---	---	---	---	---	---	---	---	---	97	86	90
14	71	67	69	---	---	---	96	92	94	97	94	95
15	71	68	69	---	---	---	97	94	95	96	92	94
16	72	68	70	---	---	---	---	---	---	94	91	93
17	---	---	---	---	---	---	98	95	97	96	92	94
18	---	---	---	---	---	---	98	94	97	96	93	94
19	---	---	---	---	---	---	97	94	96	95	92	94
20	---	---	---	---	---	---	99	96	98	94	91	93
21	---	---	---	---	---	---	99	96	98	94	91	92
22	---	---	---	---	---	---	99	95	97	93	90	91
23	---	---	---	---	---	---	98	94	97	95	91	93
24	---	---	---	94	74	83	98	95	96	95	93	94
25	---	---	---	81	74	78	97	94	95	95	91	93
26	---	---	---	83	76	79	96	94	95	94	91	93
27	---	---	---	83	76	79	97	94	96	96	93	94
28	---	---	---	80	75	77	97	94	95	98	95	97
29	---	---	---	80	77	79	97	92	94	98	95	96
30	---	---	---	81	75	78	95	92	94	97	93	95
31	---	---	---	---	---	---	95	91	93	96	93	94
MONTH	---	---	---	---	---	---	---	---	---	98	84	92
		FEBRUARY			MARCH			APRIL			MAY	
1	95	92	94	102	99	101	95	90	92	93	86	89
2	96	92	94	104	92	100	96	90	94	94	89	92
3	95	91	93	97	93	94	99	87	96	94	86	91
4	95	92	94	97	92	94	99	94	96	---	---	---
5	96	91	93	95	91	93	101	95	98	---	---	---
6	95	90	93	95	92	93	99	95	97	---	---	---
7	94	89	92	95	90	92	100	97	98	---	---	---
8	92	88	90	95	90	93	100	95	97	---	---	---
9	93	88	90	95	91	94	101	95	97	---	---	---
10	92	89	91	95	90	93	102	96	99	---	---	---
11	93	90	91	94	89	92	102	97	100	101	96	98
12	93	89	91	94	86	90	102	97	100	100	96	98
13	92	88	91	92	87	89	102	97	100	100	96	97
14	92	88	89	91	87	89	104	100	102	99	95	96
15	91	86	89	93	88	90	103	99	101	97	95	96
16	89	86	87	93	88	91	105	99	102	99	95	97
17	92	88	90	95	90	92	105	97	101	99	95	97
18	93	88	91	96	89	92	104	96	100	98	94	96
19	93	89	92	93	88	91	101	92	97	97	94	95
20	95	91	93	96	89	93	102	92	97	95	92	94
21	98	91	95	99	95	97	100	86	91	96	91	95
22	100	97	98	100	97	99	91	86	89	96	93	94
23	100	95	98	99	96	98	89	85	87	96	88	93
24	101	96	98	101	97	99	88	81	85	97	88	94
25	102	98	100	102	97	99	86	81	83	97	94	96
26	103	99	101	102	98	100	88	83	86	98	95	97
27	103	99	101	101	97	99	87	83	85	99	95	96
28	102	99	100	99	94	96	90	86	88	98	95	97
29	---	---	---	97	92	94	92	86	89	99	95	97
30	---	---	---	96	90	93	91	85	88	98	95	97
31	---	---	---	94	90	92	---	---	---	99	96	97
MONTH	103	86	94	104	86	94	105	81	94	---	---	---

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	97	94	96	---	---	---	---	---	---	97	94	95
2	97	93	96	---	---	---	---	---	---	97	92	95
3	98	95	96	---	---	---	---	---	---	96	91	94
4	98	93	96	---	---	---	---	---	---	97	94	96
5	100	96	98	---	---	---	---	---	---	99	93	95
6	99	96	97	---	---	---	---	---	---	96	87	93
7	99	96	98	---	---	---	---	---	---	90	87	88
8	100	97	98	96	91	94	---	---	---	---	---	---
9	100	97	98	95	91	93	---	---	---	---	---	---
10	101	97	99	93	86	90	---	---	---	---	---	---
11	101	98	100	---	---	---	---	---	---	---	---	---
12	101	88	98	---	---	---	---	---	---	---	---	---
13	98	88	95	---	---	---	---	---	---	---	---	---
14	97	92	95	---	---	---	---	---	---	---	---	---
15	98	94	96	---	---	---	---	---	---	---	---	---
16	104	94	97	---	---	---	---	---	---	---	---	---
17	99	94	96	---	---	---	---	---	---	---	---	---
18	99	94	96	---	---	---	---	---	---	---	---	---
19	100	94	96	---	---	---	---	---	---	---	---	---
20	97	92	95	---	---	---	---	---	---	---	---	---
21	96	93	94	---	---	---	---	---	---	---	---	---
22	99	93	96	---	---	---	---	---	---	---	---	---
23	96	92	94	---	---	---	---	---	---	---	---	---
24	97	91	94	---	---	---	---	---	---	---	---	---
25	94	90	92	---	---	---	---	---	---	---	---	---
26	95	89	92	---	---	---	---	---	---	---	---	---
27	98	90	93	---	---	---	---	---	---	---	---	---
28	105	87	92	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	76	72	74	---	---	---	---	---	---
2	---	---	---	74	70	72	---	---	---	---	---	---
3	---	---	---	75	70	73	---	---	---	---	---	---
4	---	---	---	74	68	71	---	---	---	---	---	---
5	---	---	---	73	68	71	---	---	---	---	---	---
6	---	---	---	71	67	69	---	---	---	---	---	---
7	---	---	---	72	67	69	---	---	---	---	---	---
8	---	---	---	72	65	69	---	---	---	---	---	---
9	---	---	---	71	64	67	---	---	---	---	---	---
10	---	---	---	68	62	65	---	---	---	---	---	---
11	---	---	---	70	65	67	---	---	---	---	---	---
12	---	---	---	72	66	69	---	---	---	---	---	---
13	---	---	---	74	68	70	---	---	---	---	---	---
14	---	---	---	72	66	70	---	---	---	---	---	---
15	---	---	---	75	69	71	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	84	78	82	---	---	---	---	---	---	---	---	---
19	79	70	75	---	---	---	---	---	---	---	---	---
20	78	69	74	---	---	---	---	---	---	---	---	---
21	76	69	73	---	---	---	---	---	---	---	---	---
22	83	73	76	---	---	---	---	---	---	---	---	---
23	85	80	82	---	---	---	---	---	---	---	---	---
24	85	82	84	---	---	---	---	---	---	---	---	---
25	85	78	82	---	---	---	---	---	---	---	---	---
26	83	78	80	---	---	---	---	---	---	---	---	---
27	82	78	80	---	---	---	---	---	---	---	---	---
28	81	74	78	---	---	---	---	---	---	---	---	---
29	80	76	78	---	---	---	---	---	---	---	---	---
30	81	74	78	---	---	---	---	---	---	---	---	---
31	79	73	76	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

03447894 BENT CREEK AT BENT CREEK GAP NEAR GLEN BALD, NC

LOCATION.--Lat 35°29'37", long 82°36'40", Buncombe County, Hydrologic Unit 06010105, on left bank at upstream side of stone bridge on Bent Creek Gap Road, 0.75 mi northwest of Glen Bald, and 1.1 mi upstream from mouth.

DRAINAGE AREA.--8.74 mi^2.

PERIOD OF RECORD.--November 2001 to current year.

REVISED RECORDS.--WDR NC-04-1: 2003(M).

GAGE.--Water-stage recorder. Elevation of gage is 2,080 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Maximum discharge for period of record from rating curve extended above 300 ft^3/s on basis of slope-area measurement of peak flow. Minimum discharge for period of record also occurred Sept. 12, 13, 2002. Minimum discharge for current water year also occurred Sept. 30.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	14	25	17	14	16	24	17	15	35	24	17
2	30	14	22	16	13	14	28	16	24	29	21	15
3	27	15	20	16	14	13	24	15	19	26	20	14
4	25	59	19	16	14	13	22	15	17	25	18	13
5	23	29	18	16	13	13	21	15	15	22	17	13
6	21	21	18	16	13	13	20	15	15	21	17	12
7	20	19	18	15	13	12	20	15	14	91	22	12
8	19	17	17	15	13	15	22	14	16	53	26	12
9	19	16	24	15	13	13	20	14	14	36	21	11
10	19	15	23	14	13	12	18	17	13	29	19	11
11	18	15	21	14	12	12	18	16	14	34	17	11
12	18	25	20	14	12	12	19	15	33	34	16	11
13	19	20	19	18	12	12	23	14	60	32	18	10
14	18	18	18	36	13	12	27	15	36	29	17	10
15	17	17	17	23	12	11	24	15	26	27	15	9.9
16	16	16	16	20	12	13	22	14	21	25	15	10
17	16	16	16	18	12	13	20	14	18	23	16	10
18	15	15	16	17	11	12	19	13	18	21	20	9.9
19	17	15	16	17	11	12	19	13	22	30	18	9.4
20	16	15	15	17	12	12	18	25	21	37	17	9.2
21	15	14	15	16	18	11	18	18	19	33	15	9.1
22	15	14	15	16	16	13	22	16	17	27	15	9.0
23	15	16	54	15	14	21	22	15	15	24	15	9.0
24	15	46	32	14	15	17	21	14	14	22	14	8.8
25	15	38	26	15	13	15	19	13	14	20	14	8.8
26	14	27	23	15	13	14	18	13	15	18	13	10
27	14	24	21	14	13	17	18	13	32	37	13	9.7
28	15	23	20	13	17	102	17	13	133	31	13	9.0
29	18	20	19	14	---	46	17	12	129	37	13	9.1
30	15	20	18	15	---	32	18	12	51	31	40	8.9
31	14	---	18	14	---	27	---	12	---	27	22	---
TOTAL	572	633	639	511	371	570	618	458	870	966	561	321.8
MEAN	18.5	21.1	20.6	16.5	13.2	18.4	20.6	14.8	29.0	31.2	18.1	10.7
MAX	34	59	54	36	18	102	28	25	133	91	40	17
MIN	14	14	15	13	11	11	17	12	13	18	13	8.8
CFSM	2.11	2.41	2.36	1.89	1.52	2.10	2.36	1.69	3.32	3.57	2.07	1.23
IN.	2.43	2.69	2.72	2.17	1.58	2.43	2.63	1.95	3.70	4.11	2.39	1.37

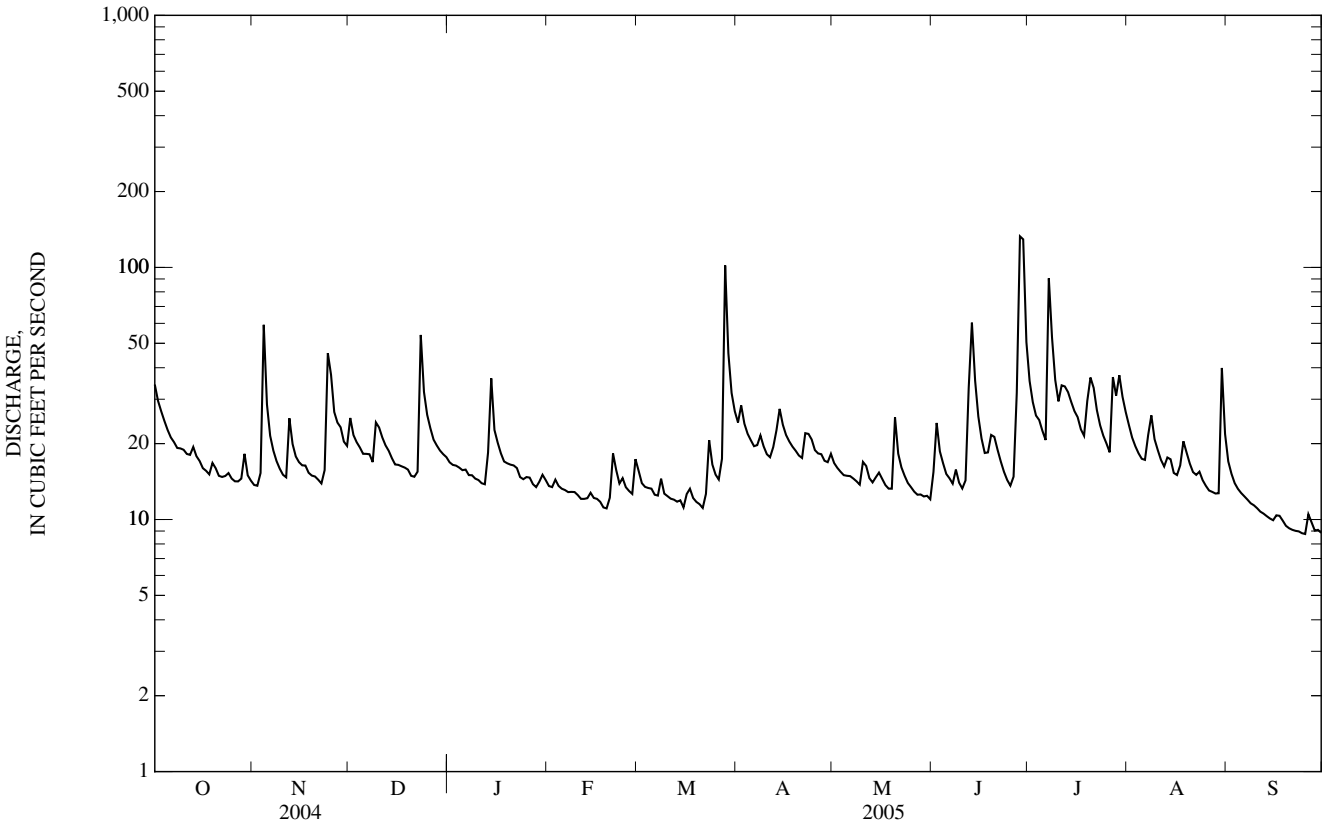
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2005, BY WATER YEAR (WY)

MEAN	11.1	14.0	15.0	11.9	14.4	15.3	17.5	18.1	16.6	17.0	11.0	24.9
MAX	18.5	22.2	20.6	16.5	19.8	21.5	22.8	35.9	29.0	31.2	18.1	69.0
(WY)	(2005)	(2004)	(2005)	(2005)	(2004)	(2003)	(2003)	(2003)	(2005)	(2005)	(2005)	(2004)
MIN	4.77	3.61	3.94	7.30	6.94	9.06	7.92	8.24	5.18	4.43	2.22	5.57
(WY)	(2003)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)

03447894 BENT CREEK AT BENT CREEK GAP NEAR GLEN BALD, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2002 - 2005	
ANNUAL TOTAL	7,061.3		7,090.8			
ANNUAL MEAN	19.3		19.4		18.6	
HIGHEST ANNUAL MEAN					19.4	2005
LOWEST ANNUAL MEAN					17.9	2003
HIGHEST DAILY MEAN	663	Sep 17	133	Jun 28	663	Sep 17, 2004
LOWEST DAILY MEAN	4.3	Aug 28	8.8	Sep 24	0.75	Sep 12, 2002
ANNUAL SEVEN-DAY MINIMUM	4.9	Aug 22	9.0	Sep 19	0.91	Sep 7, 2002
MAXIMUM PEAK FLOW			594	Jun 28	3,000*	Sep 17, 2004
MAXIMUM PEAK STAGE			5.01	Jun 28	9.81	Sep 17, 2004
INSTANTANEOUS LOW FLOW			8.3*	Sep 25	0.71*	Sep 11, 2002
ANNUAL RUNOFF (CFSM)	2.21		2.22		2.13	
ANNUAL RUNOFF (INCHES)	30.05		30.18		28.97	
10 PERCENT EXCEEDS	25		29		26	
50 PERCENT EXCEEDS	14		16		15	
90 PERCENT EXCEEDS	6.6		12		8.3	

* See REMARKS.



0344894205 NORTH FORK SWANNANOA RIVER NEAR WALKERTOWN, NC

LOCATION.--Lat 35°41'00", long 82°19'59", Buncombe County, Hydrologic Unit 06010105, on left bank 400 ft downstream of Sugar Springs Cove, 0.6 mi upstream from Burnette Reservoir, and 2.3 mi north of Walkertown.

DRAINAGE AREA.--14.5 mi^2.

PERIOD OF RECORD.--February 1989 to current year.

REVISED RECORDS.--WDR NC-91-1: 1989(M). WDR NC-04-1: 1989-1998(M), 2000(M).

GAGE.--Water-stage recorder. Elevation of gage is 2,650 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Maximum discharge for period of record from rating curve extended above 1,000 ft^3/s on basis of slope area measurement of peak flow. Maximum gage height for period of record from floodmark. Minimum discharge for period of record also occurred Sept. 15, 16, 18, 19, Oct. 3, 4, 1998.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	31	77	40	27	44	65	47	22	80	31	97
2	68	30	63	38	27	40	113	43	47	72	29	75
3	62	32	56	37	35	39	92	40	33	67	27	62
4	55	127	51	35	32	38	100	37	30	61	27	53
5	50	83	47	34	32	38	116	35	26	55	31	47
6	46	61	49	33	32	36	103	34	26	50	32	41
7	43	52	52	32	32	37	90	32	24	150	48	37
8	40	46	48	33	32	65	123	30	30	125	185	33
9	38	42	75	31	34	52	99	29	41	86	117	30
10	36	38	84	30	38	48	81	28	40	72	89	28
11	34	36	74	29	33	46	70	27	42	89	65	26
12	33	106	65	28	32	43	66	26	147	122	53	24
13	39	83	60	47	33	43	73	25	269	85	47	22
14	34	66	54	144	36	48	87	26	115	77	44	21
15	32	57	50	70	36	43	73	30	78	174	43	19
16	30	51	48	58	37	43	65	26	62	180	39	18
17	29	47	46	50	35	42	58	25	52	103	36	18
18	28	44	44	45	32	39	53	24	57	82	82	16
19	33	41	42	42	31	39	48	23	60	69	71	15
20	32	38	e40	40	33	37	44	34	88	61	53	14
21	30	36	39	39	97	36	40	30	93	54	45	13
22	29	34	37	37	85	37	42	27	68	51	58	13
23	28	39	162	e34	65	81	46	27	62	46	75	14
24	31	115	87	33	62	60	43	25	52	41	62	13
25	30	104	68	32	57	53	41	23	46	37	53	13
26	28	77	59	32	51	49	46	22	43	34	48	15
27	29	67	53	30	47	53	53	21	146	32	44	14
28	30	65	49	29	49	158	48	21	104	31	40	13
29	36	58	46	29	---	108	49	20	103	40	39	13
30	37	53	44	31	---	84	50	19	96	33	365	12
31	33	---	41	29	---	71	---	19	---	33	154	---
TOTAL	1,181	1,759	1,810	1,251	1,172	1,650	2,077	875	2,102	2,292	2,132	829
MEAN	38.1	58.6	58.4	40.4	41.9	53.2	69.2	28.2	70.1	73.9	68.8	27.6
MAX	78	127	162	144	97	158	123	47	269	180	365	97
MIN	28	30	37	28	27	36	40	19	22	31	27	12
CFSM	2.63	4.04	4.03	2.78	2.89	3.67	4.77	1.95	4.83	5.10	4.74	1.91
IN.	3.03	4.51	4.64	3.21	3.01	4.23	5.33	2.24	5.39	5.88	5.47	2.13

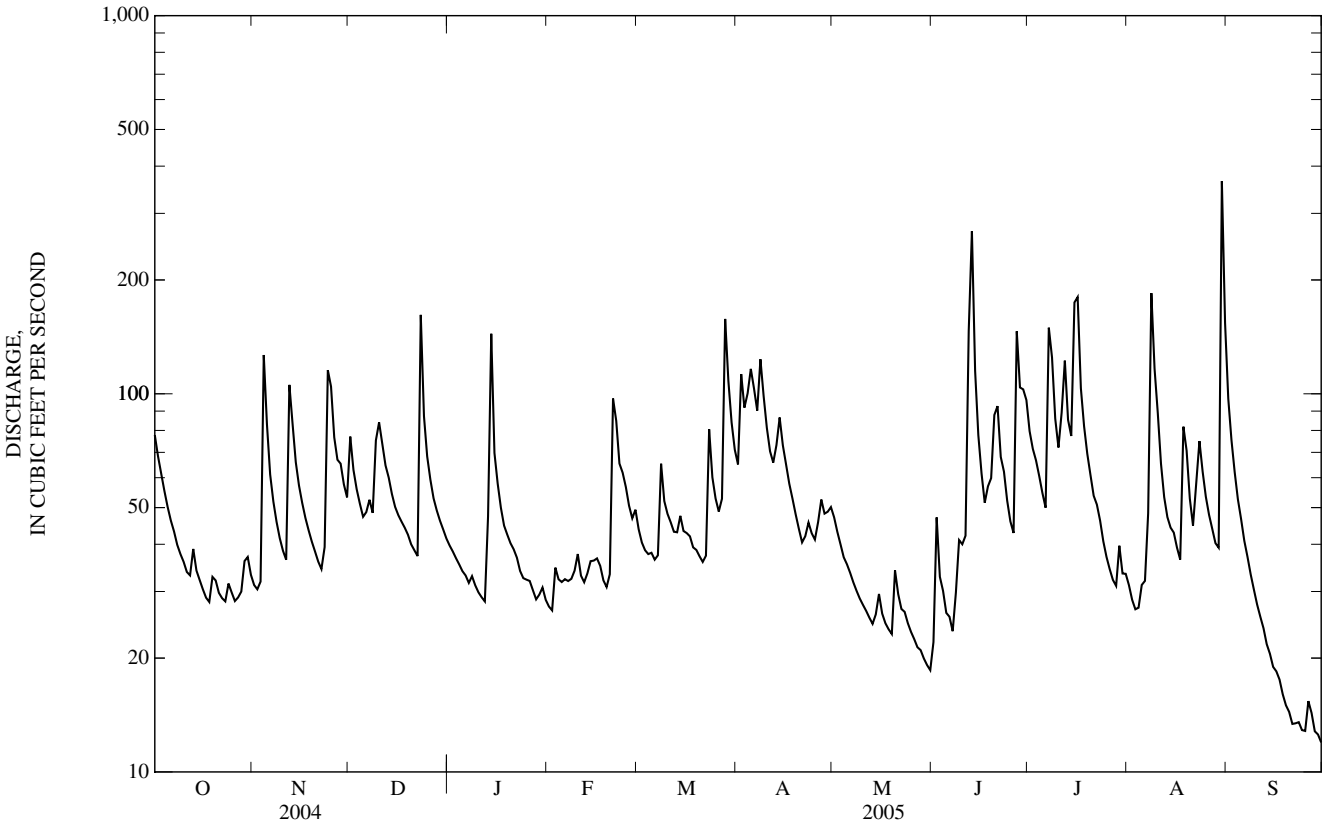
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2005, BY WATER YEAR (WY)

MEAN	26.9	35.5	42.1	56.5	57.2	67.0	55.7	44.1	37.2	27.0	31.6	36.5
MAX	79.1	84.6	79.8	134	120	111	86.4	75.3	78.0	73.9	123	311
(WY)	(1996)	(1993)	(1993)	(1995)	(1990)	(1993)	(2003)	(2003)	(1995)	(2005)	(1994)	(2004)
MIN	2.49	4.88	14.8	27.6	27.7	37.1	18.6	18.9	13.5	5.71	3.96	1.92
(WY)	(1999)	(1999)	(1999)	(2004)	(2002)	(2004)	(1995)	(2001)	(1998)	(1998)	(1998)	(1998)

0344894205 NORTH FORK SWANNANOA RIVER NEAR WALKERTOWN, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1989 - 2005	
ANNUAL TOTAL	21,876		19,130			
ANNUAL MEAN	59.8		52.4		42.7	
HIGHEST ANNUAL MEAN					58.1	2004
LOWEST ANNUAL MEAN					24.1	2002
HIGHEST DAILY MEAN	2,310	Sep 8	365	Aug 30	2,310	Sep 8, 2004
LOWEST DAILY MEAN	10	Jul 23	12	Sep 30	1.5	Sep 14, 1998
ANNUAL SEVEN-DAY MINIMUM	12	Jul 17	13	Sep 24	1.6	Sep 12, 1998
MAXIMUM PEAK FLOW			1,080	Jul 15	7,000*	Sep 8, 2004
MAXIMUM PEAK STAGE			5.46	Jul 15	10.33*	Sep 8, 2004
INSTANTANEOUS LOW FLOW			11	Sep 30	1.5*	Sep 14, 1998
ANNUAL RUNOFF (CFSM)	4.12		3.61		2.95	
ANNUAL RUNOFF (INCHES)	56.12		49.08		40.05	
10 PERCENT EXCEEDS	77		89		81	
50 PERCENT EXCEEDS	34		43		30	
90 PERCENT EXCEEDS	20		26		7.2	

* See REMARKS.
e Estimated.



03450000 BEETREE CREEK NEAR SWANNANOA, NC

LOCATION.--Lat 35°39'11", long 82°24'19", Buncombe County, Hydrologic Unit 06010105, on left bank 0.5 mi downstream of Wolfe Branch, 0.8 mi upstream from Beetree Reservoir dam, 3.8 mi north of Swannanoa, and 4.8 mi above mouth.

DRAINAGE AREA.--5.46 mi^2.

PERIOD OF RECORD.--February 1926 to September 1975, October 1979 to September 1981, October 1985 to September 1986, and May 1987 to current year.

REVISED RECORDS.--WSP 823: Drainage area. WSP 893: 1928, 1936-37 (M). WSP 953: 1929 (M). WSP 1276: 1932.

GAGE.--Water-stage recorder and masonry control. Datum of gage is 2,726.39 ft above NGVD of 1929. Prior to May 5, 2005, at site 70 ft upstream at datum 2,728.39 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record from rating curve extended above 240 ft^3/s on basis of computation of peak flow over weir. Minimum discharge for period of record also occurred July 25, 1996.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	9.5	19	14	7.7	14	23	15	6.1	15	13	28
2	17	9.8	17	13	7.1	13	32	14	8.1	13	11	22
3	16	11	16	13	9.9	13	32	12	6.5	13	10	19
4	15	28	15	12	9.0	13	35	11	6.2	12	10	16
5	14	23	14	12	9.0	13	33	11	5.9	13	11	14
6	13	18	15	12	8.7	13	28	9.8	6.1	13	10	13
7	13	16	16	11	8.1	13	25	8.9	5.7	75	13	12
8	12	14	14	11	8.2	16	26	8.1	25	74	51	11
9	12	13	21	10	8.4	14	23	7.5	10	43	55	10
10	11	12	24	9.8	8.7	13	21	7.0	8.1	31	49	9.5
11	11	11	25	e9.6	e7.6	13	18	6.6	8.2	31	32	9.0
12	11	29	22	e9.4	e7.2	13	18	6.0	20	39	24	8.7
13	13	26	21	13	e7.6	13	21	5.5	80	35	23	8.1
14	12	21	19	31	e8.4	13	27	5.9	60	36	20	7.7
15	11	19	17	21	e8.4	11	24	6.7	37	33	17	7.4
16	10	17	16	18	e8.6	12	21	5.9	26	28	15	7.5
17	9.5	15	15	15	e8.0	12	19	5.5	21	24	13	7.3
18	9.4	14	14	14	e7.2	12	17	5.3	23	21	21	6.8
19	11	13	14	13	e6.8	12	15	5.2	20	18	17	6.5
20	10	13	13	13	7.2	11	13	12	26	24	14	6.3
21	10	12	13	13	29	11	13	8.6	25	21	12	6.1
22	9.7	11	13	12	29	12	14	7.7	21	18	38	6.0
23	9.6	13	52	12	22	20	15	7.4	18	16	52	5.9
24	11	27	36	e11	20	18	14	6.9	15	14	34	5.6
25	9.9	31	28	11	17	17	15	6.5	13	13	27	5.6
26	9.6	26	23	11	15	16	16	6.2	12	11	23	7.2
27	9.8	22	20	10	14	16	17	5.9	19	11	20	6.5
28	9.9	20	18	9.2	16	42	16	5.8	17	11	18	5.5
29	10	18	17	8.8	---	39	16	5.5	18	14	16	5.3
30	10	17	16	9.8	---	31	16	5.2	17	12	45	5.0
31	9.7	---	15	8.8	---	26	---	5.0	---	15	39	---
TOTAL	359.1	529.3	598	391.4	323.8	505	623	239.6	583.9	747	753	288.5
MEAN	11.6	17.6	19.3	12.6	11.6	16.3	20.8	7.73	19.5	24.1	24.3	9.62
MAX	19	31	52	31	29	42	35	15	80	75	55	28
MIN	9.4	9.5	13	8.8	6.8	11	13	5.0	5.7	11	10	5.0
CFSM	2.12	3.23	3.53	2.31	2.12	2.98	3.80	1.42	3.56	4.41	4.45	1.76
IN.	2.45	3.61	4.07	2.67	2.21	3.44	4.24	1.63	3.98	5.09	5.13	1.97

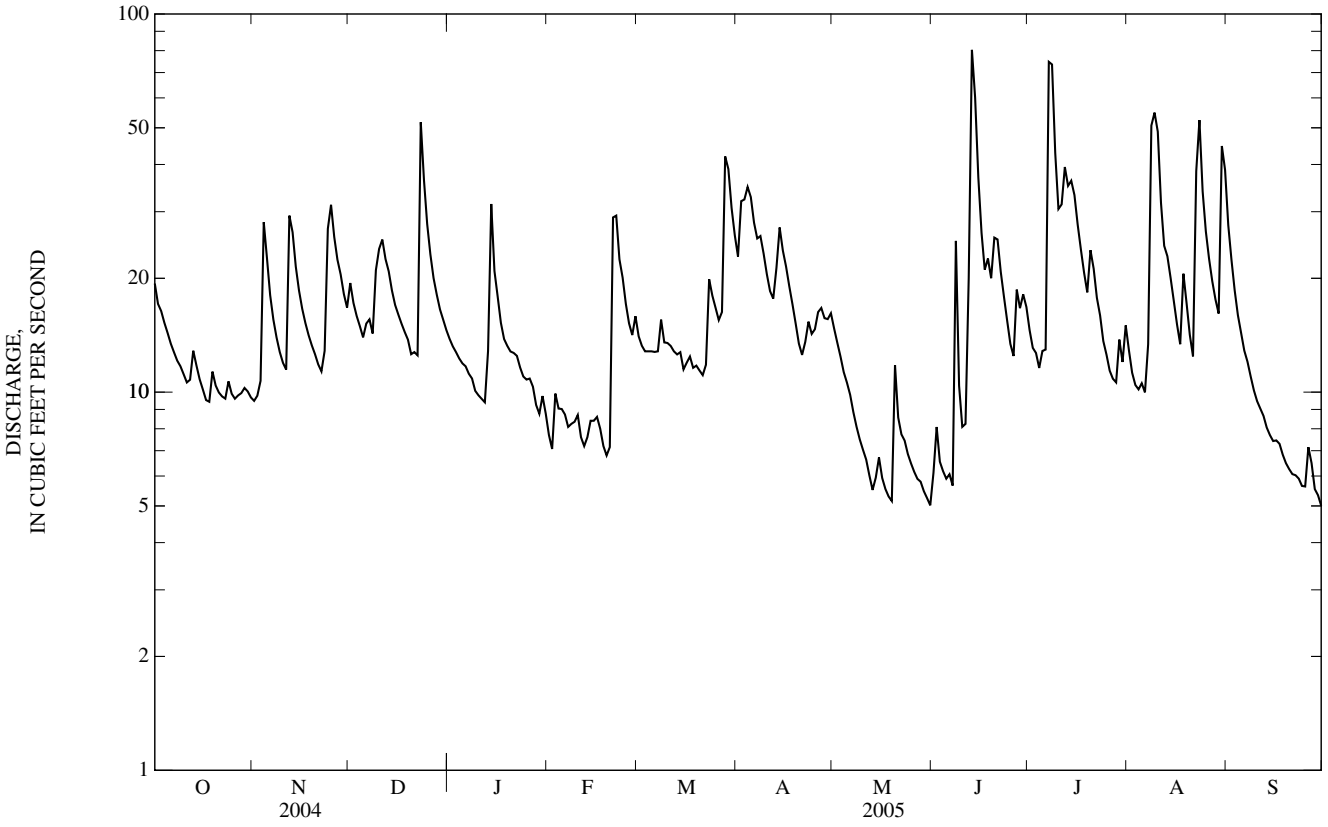
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 2005,@ BY WATER YEAR (WY)

MEAN	6.15	8.44	10.5	13.4	15.4	18.7	16.8	11.8	8.63	6.43	6.72	6.10
MAX	33.9	45.3	25.4	38.5	43.0	43.1	34.2	28.5	27.0	37.9	61.8	91.8
(WY)	(1930)	(1980)	(1933)	(1937)	(1990)	(1975)	(1936)	(1973)	(1949)	(1949)	(1940)	(2004)
MIN	0.65	1.23	1.58	1.99	4.46	5.25	5.21	4.68	1.82	1.18	0.83	0.51
(WY)	(1955)	(1955)	(1940)	(1940)	(1941)	(1988)	(1986)	(1948)	(1988)	(1998)	(1998)	(1954)

03450000 BEETREE CREEK NEAR SWANNANOA, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1926 - 2005[@]	
ANNUAL TOTAL	6,464.8		5,941.6			
ANNUAL MEAN	17.7		16.3		10.8	
HIGHEST ANNUAL MEAN					17.8	1949
LOWEST ANNUAL MEAN					5.37	2002
HIGHEST DAILY MEAN	504	Sep 17	80	Jun 13	528	Aug 13, 1940
LOWEST DAILY MEAN	3.0	Jul 29	5.0	May 31	0.30	Sep 30, 1954
ANNUAL SEVEN-DAY MINIMUM	3.5	Jul 23	5.7	May 26	0.40	Sep 24, 1954
MAXIMUM PEAK FLOW			203	Aug 22	1,370*	Aug 13, 1940
MAXIMUM PEAK STAGE			2.83	Aug 22	6.20	Aug 13, 1940
INSTANTANEOUS LOW FLOW			4.7	Sep 30	0.28*	Jul 24, 1996
ANNUAL RUNOFF (CFSM)	3.24		2.98		1.97	
ANNUAL RUNOFF (INCHES)	44.05		40.48		26.79	
10 PERCENT EXCEEDS	25		28		22	
50 PERCENT EXCEEDS	10		13		7.4	
90 PERCENT EXCEEDS	5.2		7.0		1.6	

[@] See PERIOD OF RECORD.
* See REMARKS.
e Estimated.



03451000 SWANNANOA RIVER AT BILTMORE, NC

LOCATION.--Lat 35°34'06", long 82°32'41", Buncombe County, Hydrologic Unit 06010105, on left bank at Biltmore, 100 ft downstream of Biltmore Avenue Bridge, 200 ft upstream from Southern Railway bridge, and 1.6 mi upstream from mouth.

DRAINAGE AREA.--130 mi^2.

PERIOD OF RECORD.--October 1920 to September 1926, May 1934 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 803: 1921(M), 1923(M), 1925(M). WSP 823: Drainage area. WSP 1306: 1921(M), 1924(M), 1926(M).

GAGE.--Water-stage recorder and concrete contro1. Datum of gage is 1,976.58 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Dec. 1, 1920, to Sept. 30, 1926, nonrecording gage at site 100 ft upstream at same datum. Satellite and telephone telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, and those above 6,500 ft^3/s, which are poor. Considerable regulation from 1925-50 (reservoir silted) by Lake Craig, 3.6 mi upstream from station. City of Asheville diverted an average of 29.6 ft^3/s from Burnett Lake (station 03448959) on North Fork Swannanoa River, 20 mi upstream from station. An average of 35.2 ft^3/s was discharged downstream of station into the French Broad River as treated sewage effluent. Maximum discharge for period of record, from rating curve extended above 9,100 ft^3/s on basis of computation of peak flow over dam 3.6 mi upstream from station. Minimum discharge for period of record occurred several days in Oct. 1941. Minimum discharge for current water year also occurred Sept. 30.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage observed: 26 ft; discharge: 40,000 ft^3/s in April 1791, from studies by Tennessee Valley Authority. Flood of July 1916 reached a stage of 20.7 ft; discharge, 23,000 ft^3/s, from flood profile by Tennessee Valley Authority. Flood of Aug. 16, 1928 reached a stage of 18.74 ft, from floodmarks; discharge, 17,800 ft^3/s. High stages are subject to backwater from French Broad River.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	331	131	258	172	129	218	276	189	126	324	152	321
2	295	131	233	163	124	188	399	176	185	333	135	260
3	267	160	216	158	149	170	428	170	153	300	124	217
4	245	412	197	152	141	162	366	162	139	262	118	186
5	224	358	184	147	131	159	363	157	162	235	151	166
6	207	270	196	145	128	154	351	151	135	262	132	149
7	198	222	209	140	127	150	322	143	124	915	194	138
8	189	195	188	139	127	179	381	138	174	738	539	128
9	181	174	320	135	127	173	355	135	166	479	551	120
10	177	160	344	131	130	167	304	149	166	375	463	111
11	170	151	348	128	124	160	269	134	205	427	325	106
12	169	390	296	125	121	154	259	126	245	489	249	101
13	199	354	266	192	122	149	301	135	740	469	231	95
14	171	290	236	635	133	153	384	155	580	457	202	91
15	161	247	215	342	130	147	310	160	361	407	175	87
16	152	220	203	272	128	157	276	134	263	492	162	88
17	144	201	195	229	124	177	254	123	218	401	153	88
18	139	188	186	199	119	155	235	118	202	311	318	84
19	167	178	180	187	110	146	222	118	209	285	233	79
20	155	167	169	181	134	141	203	198	255	317	192	75
21	143	157	160	172	402	137	195	145	284	305	167	73
22	145	151	157	162	372	148	213	133	232	225	354	71
23	139	176	460	156	286	270	235	126	207	210	365	71
24	166	388	429	158	e270	220	208	118	178	183	252	70
25	146	441	327	142	226	203	191	112	159	166	208	68
26	139	352	274	139	203	188	188	108	151	151	183	83
27	139	299	237	133	188	214	197	107	491	203	683	85
28	138	284	214	124	257	621	188	107	420	157	173	72
29	147	242	201	130	---	469	190	104	369	267	128	70
30	140	218	189	146	---	371	202	102	337	182	505	69
31	137	---	181	138	---	314	---	99	---	170	375	---
TOTAL	5,520	7,307	7,468	5,572	4,762	6,414	8,265	4,232	7,636	10,497	8,192	3,422
MEAN	178	244	241	180	170	207	276	137	255	339	264	114
MAX	331	441	460	635	402	621	428	198	740	915	683	321
MIN	137	131	157	124	110	137	188	99	124	151	118	68
CFSM	1.37	1.87	1.85	1.38	1.31	1.59	2.12	1.05	1.96	2.60	2.03	0.88
IN.	1.58	2.09	2.14	1.59	1.36	1.84	2.37	1.21	2.19	3.00	2.34	0.98

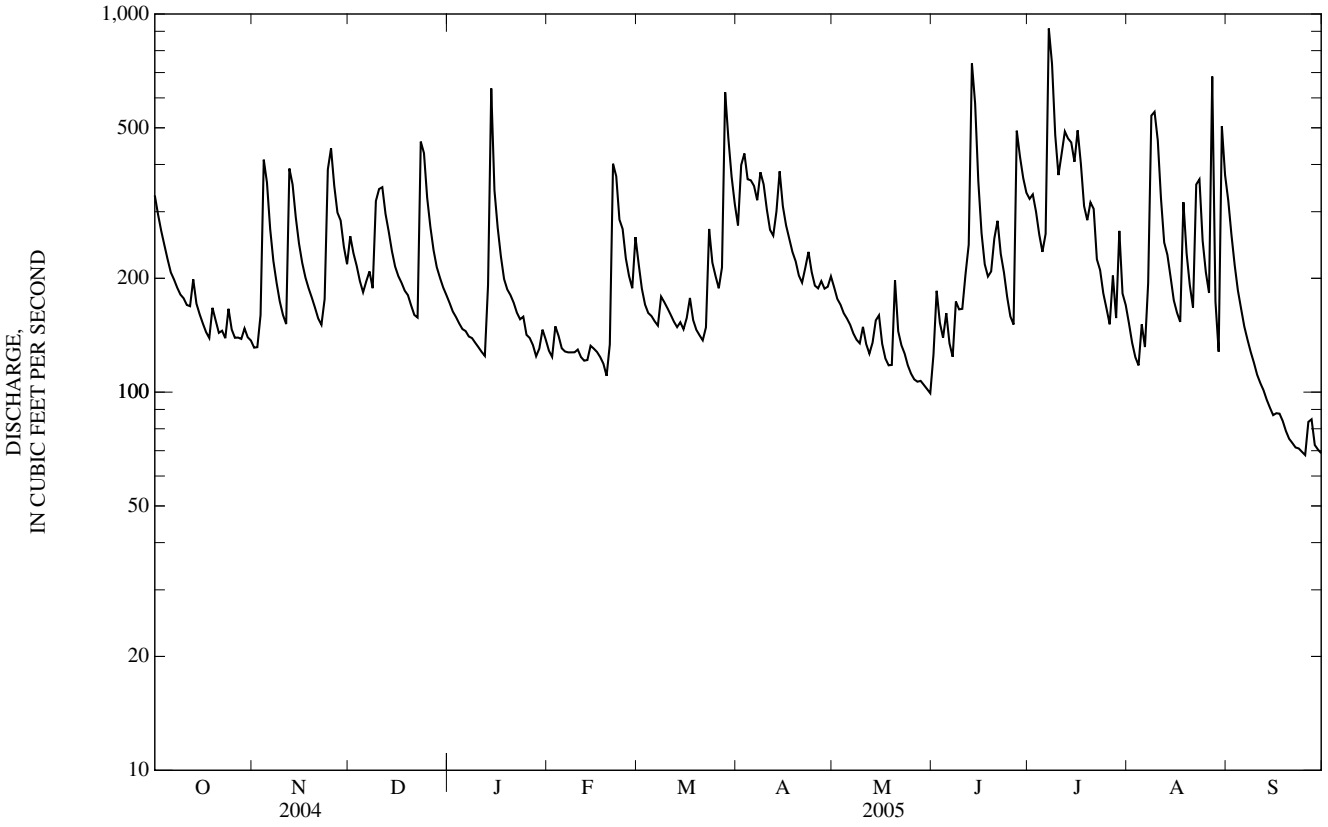
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2005,@BY WATER YEAR (WY)

MEAN	97.4	118	139	190	224	272	248	186	137	104	102	98.6
MAX	569	604	385	610	598	740	560	480	387	503	828	1,162
(WY)	(1965)	(1980)	(1962)	(1995)	(1990)	(1975)	(1936)	(1973)	(1949)	(1949)	(1940)	(2004)
MIN	13.7	27.0	35.3	32.3	65.7	45.7	55.6	45.5	17.7	18.2	13.3	13.8
(WY)	(1955)	(1982)	(1989)	(1956)	(1988)	(1988)	(1986)	(1988)	(1988)	(1986)	(2002)	(1954)

03451000 SWANNANOA RIVER AT BILTMORE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1921 - 2005[@]	
ANNUAL TOTAL	85,116		79,287			
ANNUAL MEAN	233		217		159	
HIGHEST ANNUAL MEAN					277	1949
LOWEST ANNUAL MEAN					55.9	1988
HIGHEST DAILY MEAN	10,200	Sep 8	915	Jul 7	10,200	Sep 8, 2004
LOWEST DAILY MEAN	42	Aug 10	68	Sep 25	1.2	Oct 14, 1941
ANNUAL SEVEN-DAY MINIMUM	50	Aug 5	72	Sep 19	6.4	Sep 7, 2002
MAXIMUM PEAK FLOW			1,950	Aug 22	18,400*	Aug 13, 1940
MAXIMUM PEAK STAGE			6.25	Aug 22	19.22	Sep 8, 2004
INSTANTANEOUS LOW FLOW			66*	Sep 25	1.1*	Oct 9, 1941
ANNUAL RUNOFF (CFSM)	1.79		1.67		1.23	
ANNUAL RUNOFF (INCHES)	24.36		22.69		16.65	
10 PERCENT EXCEEDS	351		371		309	
50 PERCENT EXCEEDS	130		181		106	
90 PERCENT EXCEEDS	75		122		37	

[@] See PERIOD OF RECORD.
* See REMARKS.
e Estimated.



03451500 FRENCH BROAD RIVER AT ASHEVILLE, NC

LOCATION.--Lat 35°36'32", long 82°34'41", Buncombe County, Hydrologic Unit 06010105, on right bank 27 ft upstream from Pearson Bridge (Secondary Road 1348) at Asheville, 1.4 mi downstream of bridge on U.S. Highways 19 and 23, 3.2 mi downstream of Swannanoa River, and at mile 145.8.

DRAINAGE AREA.--945 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1895 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 823: Drainage area. WSP 1306: 1895-1909, 1901(M), 1914-15(M), 1917(M), 1920-22(M).

GAGE.--Water-stage recorder. Datum of gage is 1,950.28 ft above NGVD of 1929. Sept. 17, 1895, to Dec. 31, 1901, nonrecording gage at present site at different datum. Mar. 19, 1903, to July 15, 1916, and Jan. 1, 1917, to Sept. 30, 1922, nonrecording gage at Smith Bridge 1.5 mi upstream at datum 1961.80 ft. Oct. 1, 1922, to Aug. 9, 1930, nonrecording gage at present site and datum. Satellite and telephone telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Many small diversions from tributaries upstream from station for water supply. Diversions by City of Asheville and others from upstream tributaries in the Swannanoa River basin (station 03451000) totaled about 29.6 ft^3/s and 35.2 ft^3/s was discharged 4 mi downstream from station as treated effluent. Slight diurnal fluctuation and occasional slight regulation at low flow caused by power plant 46 mi upstream and small reservoirs upstream from station. Maximum discharge for period of record, from rating curve extended above 43,000 ft^3/s, by logarithmic plotting; maximum gage height, 23.10, from floodmarks. Minimum discharge for period of record also occurred Sept. 14, 2002. Minimum discharge for current water year also occurred Sept. 30.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage observed since at least 1791, that of July 16, 1916, and flood of June 17, 1876, reached a stage of 18 ft, from studies by Tennessee Valley Authority.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7,020	1,810	3,130	2,530	2,090	2,890	3,350	2,270	1,500	3,640	3,110	3,990
2	4,730	1,770	3,400	2,440	1,950	2,380	3,550	2,040	3,060	3,580	2,790	2,910
3	4,030	2,120	2,930	2,370	2,200	2,130	3,830	1,900	4,090	3,280	2,510	2,530
4	3,690	4,100	2,710	2,310	2,520	2,030	3,300	1,830	3,040	3,100	2,350	2,270
5	3,420	5,540	2,540	2,270	2,260	1,990	3,010	1,790	2,570	3,500	2,330	2,120
6	3,190	3,960	2,470	2,230	2,090	1,960	2,820	1,790	2,270	3,000	2,330	1,980
7	3,040	2,880	2,870	2,180	1,990	1,900	2,710	1,750	2,570	7,390	2,670	1,870
8	2,890	2,560	3,060	2,150	1,940	2,100	3,090	1,720	2,450	9,870	4,450	1,800
9	2,790	2,330	3,510	2,190	1,920	2,210	3,390	1,690	2,940	8,020	4,030	1,750
10	2,720	2,170	5,750	2,080	1,910	2,020	2,940	1,770	2,470	4,920	3,470	1,670
11	2,650	2,090	5,170	2,020	1,830	1,910	2,700	1,850	2,760	4,650	3,130	1,590
12	2,550	3,140	3,860	1,970	1,780	1,850	2,600	1,780	3,210	7,960	2,740	1,540
13	2,690	4,600	3,310	2,030	1,760	1,790	3,140	1,670	7,750	7,970	2,610	1,510
14	2,580	3,480	2,980	5,590	1,810	1,900	3,660	1,690	7,860	7,650	2,710	1,460
15	2,420	2,850	2,760	4,960	1,920	1,890	3,250	1,750	7,240	7,420	2,380	1,420
16	2,320	2,610	2,630	3,370	1,830	1,840	2,880	1,850	6,500	6,140	2,260	1,410
17	2,190	2,460	2,530	2,870	1,750	2,100	2,660	1,710	3,870	4,840	2,430	1,540
18	2,130	2,330	2,460	2,600	1,690	2,030	2,530	1,580	3,050	4,770	3,550	1,490
19	2,190	2,230	2,390	2,450	1,630	1,860	2,430	1,550	3,000	4,250	4,100	1,350
20	2,280	2,140	2,270	2,370	1,680	1,800	2,320	2,450	3,260	4,670	2,990	1,290
21	2,170	2,090	2,180	2,310	2,540	1,750	2,230	2,500	3,420	4,860	2,870	1,270
22	2,060	2,020	2,160	2,230	3,120	1,740	2,330	2,100	2,930	4,220	2,920	1,250
23	2,040	2,180	4,570	2,130	2,550	2,800	2,650	1,830	2,630	3,900	3,340	1,230
24	2,140	3,110	6,580	1,970	2,360	3,000	2,460	1,690	2,360	3,440	3,180	1,210
25	2,080	4,900	6,270	2,010	2,320	2,450	2,210	1,580	2,180	3,100	2,590	1,180
26	1,970	4,000	4,430	1,980	2,120	2,200	2,110	1,510	2,100	2,860	2,290	1,230
27	1,920	3,170	3,360	1,930	1,990	2,190	2,140	1,470	6,540	2,890	2,650	1,310
28	1,890	3,140	3,030	1,860	2,370	6,530	2,060	1,460	9,000	3,010	2,110	1,240
29	1,960	2,950	2,850	1,840	---	7,340	2,010	1,450	6,270	3,510	1,980	1,190
30	2,030	2,660	2,730	2,140	---	5,850	2,050	1,430	4,340	3,530	4,140	1,190
31	1,920	---	2,640	2,400	---	3,720	---	1,420	---	3,320	5,460	---
TOTAL	83,700	87,390	103,530	75,780	57,920	80,150	82,410	54,870	117,230	149,260	92,470	49,790
MEAN	2,700	2,913	3,340	2,445	2,069	2,585	2,747	1,770	3,908	4,815	2,983	1,660
MAX	7,020	5,540	6,580	5,590	3,120	7,340	3,830	2,500	9,000	9,870	5,460	3,990
MIN	1,890	1,770	2,160	1,840	1,630	1,740	2,010	1,420	1,500	2,860	1,980	1,180
CFSM	2.86	3.08	3.53	2.59	2.19	2.74	2.91	1.87	4.14	5.10	3.16	1.76
IN.	3.29	3.44	4.08	2.98	2.28	3.16	3.24	2.16	4.61	5.88	3.64	1.96

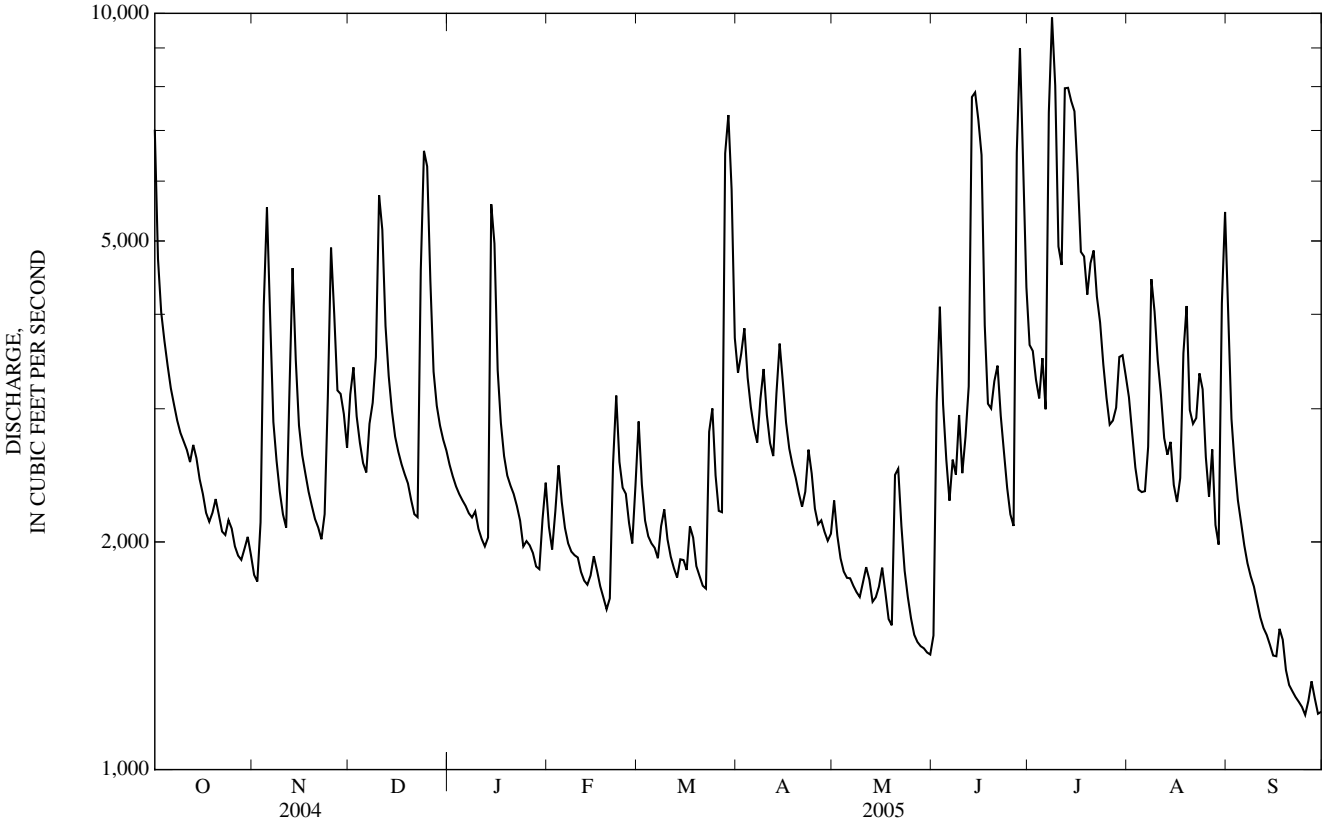
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1896 - 2005, BY WATER YEAR (WY)

MEAN	1,580	1,639	2,103	2,412	2,658	2,992	2,741	2,186	1,893	1,723	1,688	1,536
MAX	7,025	5,121	5,700	6,068	6,364	7,928	5,705	4,961	5,774	11,500	8,362	10,210
(WY)	(1965)	(1980)	(1915)	(1937)	(1998)	(1899)	(1899)	(1973)	(1909)	(1916)	(1901)	(2004)
MIN	353	507	636	548	1,083	1,037	973	852	547	559	328	346
(WY)	(1955)	(1932)	(1956)	(1956)	(1931)	(1988)	(1986)	(2001)	(1988)	(1986)	(1925)	(1954)

03451500 FRENCH BROAD RIVER AT ASHEVILLE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1896 - 2005	
ANNUAL TOTAL	1,055,332		1,034,500			
ANNUAL MEAN	2,883		2,834		2,093	
HIGHEST ANNUAL MEAN					3,671	1901
LOWEST ANNUAL MEAN					1,004	1988
HIGHEST DAILY MEAN	34,700	Sep 8	9,870	Jul 8	66,000	Jul 16, 1916
LOWEST DAILY MEAN	894	Aug 23	1,180	Sep 25	215	Sep 13, 2002
ANNUAL SEVEN-DAY MINIMUM	986	Aug 17	1,220	Sep 24	246	Sep 7, 2002
MAXIMUM PEAK FLOW			12,200	Jul 7	110,000*	Jul 16, 1916
MAXIMUM PEAK STAGE			6.57	Jul 7	23.10*	Jul 16, 1916
INSTANTANEOUS LOW FLOW			1,160*	Sep 29	215*	Sep 13, 2002
ANNUAL RUNOFF (CFSM)	3.05		3.00		2.22	
ANNUAL RUNOFF (INCHES)	41.54		40.72		30.10	
10 PERCENT EXCEEDS	4,100		4,580		3,640	
50 PERCENT EXCEEDS	2,040		2,430		1,640	
90 PERCENT EXCEEDS	1,310		1,690		771	

* See REMARKS.



03451500 FRENCH BROAD RIVER AT ASHEVILLE, NC—Continued

PRECIPITATION RECORDS

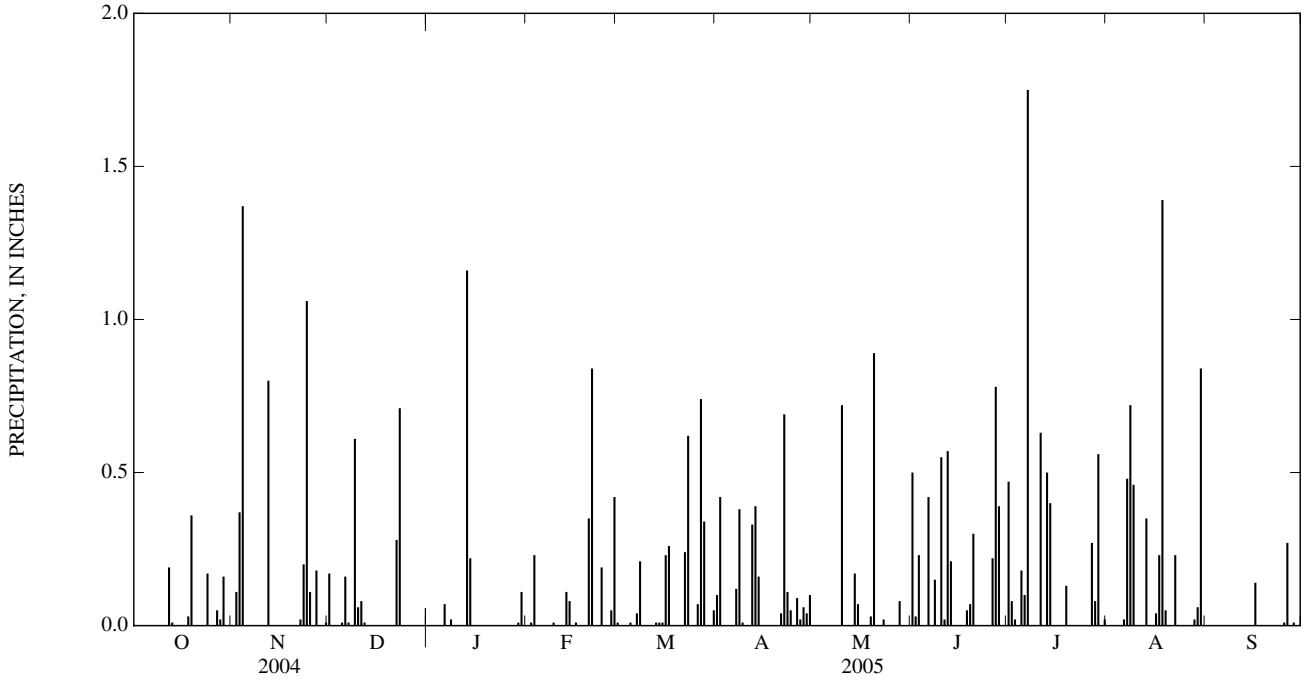
PERIOD OF RECORD.--October 1998 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Gage is operated in cooperation with Tennessee Valley Authority. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.17	0.00	0.00	0.01	0.10	0.00	0.50	0.47	0.00	0.00
2	0.00	0.11	0.00	0.00	0.01	0.00	0.42	0.00	0.03	0.08	0.00	0.00
3	0.00	0.37	0.00	0.00	0.23	0.00	0.00	0.00	0.23	0.02	0.00	0.00
4	0.00	1.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.18	0.00	0.00
6	0.00	0.00	0.16	0.07	0.00	0.00	0.00	0.00	0.42	0.10	0.02	0.00
7	0.00	0.00	0.01	0.00	0.00	0.04	0.12	0.00	0.00	1.75	0.48	0.00
8	0.00	0.00	0.00	0.02	0.00	0.21	0.38	0.00	0.15	0.00	0.72	0.00
9	0.00	0.00	0.61	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.46	0.00
10	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.72	0.55	0.00	0.00	0.00
11	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.02	0.63	0.00	0.00
12	0.19	0.80	0.01	0.00	0.00	0.00	0.33	0.00	0.57	0.00	0.00	0.00
13	0.01	0.00	0.00	1.16	0.11	0.01	0.39	0.00	0.21	0.50	0.35	0.00
14	0.00	0.00	0.00	0.22	0.08	0.01	0.16	0.17	0.00	0.40	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.07	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.01	0.23	0.00	0.00	0.00	0.00	0.04	0.14
17	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.23	0.00
18	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	1.39	0.00
19	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.07	0.13	0.05	0.00
20	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.89	0.30	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.84	0.00	0.04	0.00	0.00	0.00	0.00	0.00
22	0.00	0.02	0.28	0.00	0.00	0.24	0.69	0.00	0.00	0.00	0.23	0.00
23	0.00	0.20	0.71	0.00	0.00	0.62	0.11	0.02	0.00	0.00	0.00	0.00
24	0.17	1.06	0.00	0.00	0.19	0.00	0.05	0.00	0.00	0.00	0.00	0.00
25	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
26	0.00	0.00	0.00	0.00	0.00	0.07	0.09	0.00	0.22	0.00	0.00	0.27
27	0.05	0.18	0.00	0.00	0.05	0.74	0.02	0.00	0.78	0.27	0.00	0.00
28	0.02	0.00	0.00	0.00	0.42	0.34	0.06	0.08	0.39	0.08	0.02	0.01
29	0.16	0.00	0.00	0.01	---	0.00	0.04	0.00	0.00	0.56	0.06	0.00
30	0.00	0.01	0.00	0.11	---	0.00	0.10	0.00	0.00	0.00	0.84	0.00
31	0.00	---	0.00	0.00	---	0.05	---	0.00	---	0.02	0.00	---
TOTAL	0.99	4.23	2.10	1.59	2.30	2.85	3.11	1.98	4.49	5.19	4.89	0.43



03451690 NEWFOUND CREEK NEAR ALEXANDER, NC

LOCATION.--Lat 35°39'59", long 82°38'04", Buncombe County, Hydrologic Unit 06010105, on left bank 21 ft downstream from bridge on Secondary Road 1641, 0.9 mi above mouth, and 2.6 mi southwest of Alexander.

DRAINAGE AREA.--34.2 mi^2.

PERIOD OF RECORD.--December 2000 to October 2005 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 1,910 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Maximum discharge for period of record from rating curve extended above 1,600 ft^3/s on basis of slope-area measurement of peak flow. Maximum gage height for period of record from high-water marks at gage. Minimum discharge for the current water also occurred several days in Sept.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	22	33	23	20	35	37	25	23	28	23	22
2	38	22	27	22	19	30	54	24	32	26	22	21
3	35	26	26	22	23	28	41	23	29	25	21	20
4	32	77	25	22	21	27	35	23	26	24	24	19
5	30	38	24	22	20	26	32	23	22	23	24	18
6	28	31	26	22	20	24	30	23	21	26	24	18
7	27	29	28	21	19	24	31	22	21	224	40	18
8	26	27	25	22	20	33	34	22	20	65	e50	17
9	26	26	77	21	20	26	30	22	20	41	35	17
10	25	25	49	21	20	25	27	32	21	34	31	16
11	25	24	41	20	19	24	26	25	21	35	25	17
12	25	55	34	20	19	24	29	22	31	34	23	16
13	27	37	31	34	20	23	48	22	50	31	47	16
14	24	31	28	81	22	23	99	22	28	31	34	16
15	24	29	27	32	20	22	52	24	24	28	24	16
16	23	28	26	29	20	24	42	22	21	26	29	e20
17	22	27	26	26	19	30	37	21	20	26	28	18
18	22	26	25	e25	18	25	34	21	46	41	e137	17
19	42	26	25	24	18	24	32	21	63	156	e65	16
20	27	25	25	24	20	23	30	39	128	106	44	16
21	24	25	e25	23	92	23	29	25	56	56	35	16
22	23	24	24	23	46	24	32	23	38	43	30	16
23	23	28	40	e22	34	69	35	22	31	34	29	16
24	24	157	28	e22	35	33	30	21	27	29	26	15
25	22	66	26	21	30	29	27	21	25	27	24	15
26	22	43	25	22	27	27	27	20	24	25	22	18
27	22	36	24	20	26	33	27	20	27	24	22	17
28	22	34	23	19	43	181	25	21	98	25	22	16
29	27	29	23	21	---	63	26	20	49	31	22	16
30	24	28	23	22	---	47	27	20	32	25	49	16
31	22	---	23	21	---	40	---	19	---	24	26	---
TOTAL	826	1,101	912	769	730	1,089	1,065	710	1,074	1,373	1,057	515
MEAN	26.6	36.7	29.4	24.8	26.1	35.1	35.5	22.9	35.8	44.3	34.1	17.2
MAX	43	157	77	81	92	181	99	39	128	224	137	22
MIN	22	22	23	19	18	22	25	19	20	23	21	15
CFSM	0.78	1.07	0.86	0.73	0.76	1.03	1.04	0.67	1.05	1.30	1.00	0.50
IN.	0.90	1.20	0.99	0.84	0.79	1.18	1.16	0.77	1.17	1.49	1.15	0.56

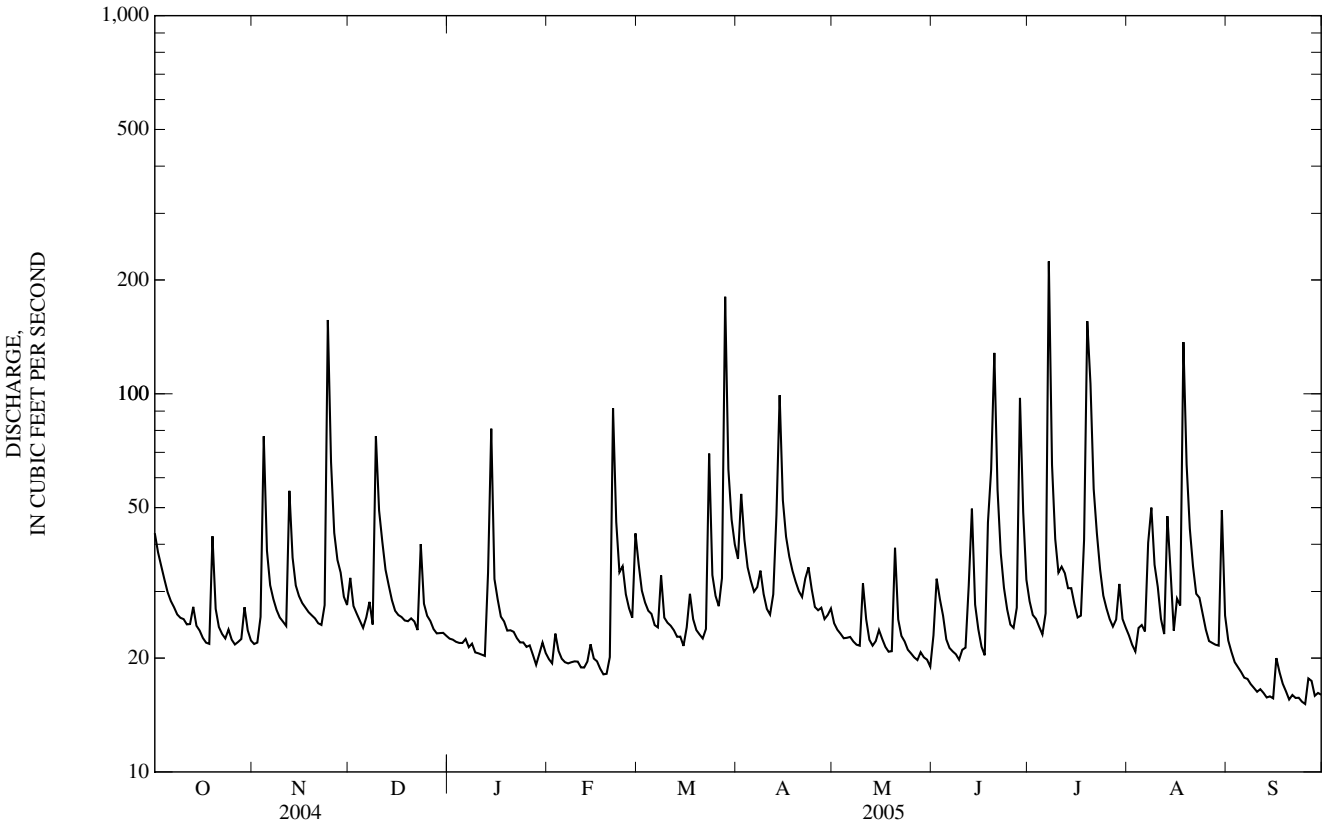
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2005, BY WATER YEAR (WY)

MEAN	13.3	20.1	18.9	17.4	22.8	24.9	26.1	25.7	19.6	20.1	18.0	40.8
MAX	26.6	36.7	29.4	24.8	32.4	35.1	40.7	66.6	35.8	44.3	34.1	157
(WY)	(2005)	(2005)	(2005)	(2005)	(2004)	(2005)	(2003)	(2003)	(2005)	(2005)	(2005)	(2004)
MIN	6.49	6.39	8.60	14.8	9.30	15.7	12.0	8.46	7.87	6.89	3.38	6.44
(WY)	(2002)	(2002)	(2002)	(2001)	(2002)	(2002)	(2002)	(2001)	(2001)	(2001)	(2002)	(2002)

03451690 NEWFOUND CREEK NEAR ALEXANDER, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2001 - 2005	
ANNUAL TOTAL	12,826		11,221			
ANNUAL MEAN	35.0		30.7		24.7	
HIGHEST ANNUAL MEAN					32.1	2004
LOWEST ANNUAL MEAN					9.50	2002
HIGHEST DAILY MEAN	2,690	Sep 17	224	Jul 7	2,690	Sep 17, 2004
LOWEST DAILY MEAN	11	Aug 28	15	Sep 24	1.8	Aug 14, 2002
ANNUAL SEVEN-DAY MINIMUM	12	Aug 26	16	Sep 19	2.1	Aug 8, 2002
MAXIMUM PEAK FLOW			658	Jul 19	17,000*	Sep 17, 2004
MAXIMUM PEAK STAGE			5.51	Jul 19	20.60*	Sep 17, 2004
INSTANTANEOUS LOW FLOW			14*	Sep 10	1.2	Aug 23, 2002
ANNUAL RUNOFF (CFSM)	1.02		0.899		0.722	
ANNUAL RUNOFF (INCHES)	13.95		12.21		9.81	
10 PERCENT EXCEEDS	42		43		35	
50 PERCENT EXCEEDS	21		25		18	
90 PERCENT EXCEEDS	14		20		6.4	

* See REMARKS.
e Estimated.



03451690 NEWFOUND CREEK NEAR ALEXANDER, NC—Continued

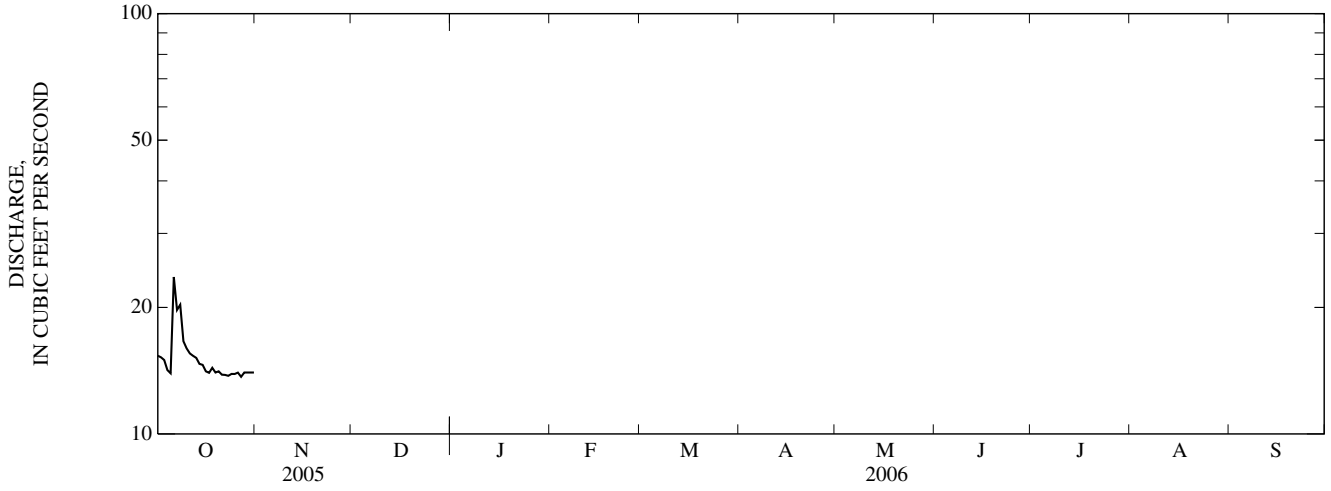
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	---	---	---	---	---	---	---	---	---	---	---
2	15	---	---	---	---	---	---	---	---	---	---	---
3	15	---	---	---	---	---	---	---	---	---	---	---
4	14	---	---	---	---	---	---	---	---	---	---	---
5	14	---	---	---	---	---	---	---	---	---	---	---
6	24	---	---	---	---	---	---	---	---	---	---	---
7	20	---	---	---	---	---	---	---	---	---	---	---
8	20	---	---	---	---	---	---	---	---	---	---	---
9	17	---	---	---	---	---	---	---	---	---	---	---
10	16	---	---	---	---	---	---	---	---	---	---	---
11	16	---	---	---	---	---	---	---	---	---	---	---
12	15	---	---	---	---	---	---	---	---	---	---	---
13	15	---	---	---	---	---	---	---	---	---	---	---
14	15	---	---	---	---	---	---	---	---	---	---	---
15	15	---	---	---	---	---	---	---	---	---	---	---
16	14	---	---	---	---	---	---	---	---	---	---	---
17	14	---	---	---	---	---	---	---	---	---	---	---
18	14	---	---	---	---	---	---	---	---	---	---	---
19	e14	---	---	---	---	---	---	---	---	---	---	---
20	14	---	---	---	---	---	---	---	---	---	---	---
21	14	---	---	---	---	---	---	---	---	---	---	---
22	14	---	---	---	---	---	---	---	---	---	---	---
23	14	---	---	---	---	---	---	---	---	---	---	---
24	14	---	---	---	---	---	---	---	---	---	---	---
25	14	---	---	---	---	---	---	---	---	---	---	---
26	14	---	---	---	---	---	---	---	---	---	---	---
27	14	---	---	---	---	---	---	---	---	---	---	---
28	e14	---	---	---	---	---	---	---	---	---	---	---
29	e14	---	---	---	---	---	---	---	---	---	---	---
30	e14	---	---	---	---	---	---	---	---	---	---	---
31	e14	---	---	---	---	---	---	---	---	---	---	---
TOTAL	470	---	---	---	---	---	---	---	---	---	---	---
MEAN	15.2	---	---	---	---	---	---	---	---	---	---	---
MAX	24	---	---	---	---	---	---	---	---	---	---	---
MIN	14	---	---	---	---	---	---	---	---	---	---	---
CFSM	0.44	---	---	---	---	---	---	---	---	---	---	---
IN.	0.51	---	---	---	---	---	---	---	---	---	---	---

SUMMARY STATISTICS FOR 2006 WATER YEAR

MAXIMUM PEAK FLOW	43	Oct 6
MAXIMUM PEAK STAGE	2.72	Oct 6
INSTANTANEOUS LOW FLOW	13	Oct 15

e Estimated.



03453000 IVY RIVER NEAR MARSHALL, NC

LOCATION.--Lat 35°46'11", long 82°37'15", Madison County, Hydrologic Unit 06010105, on right bank 0.2 mi downstream from bridge on U.S. Highway 25-70, 1.9 mi upstream from mouth, and 4.0 mi southeast of Marshall.

DRAINAGE AREA.--158 mi^2.

PERIOD OF RECORD.--October 1933 to September 1973. July 1, 1994 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 1,700.41 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Satellite telemetry at station.

REVISED RECORDS.--WSP 803: 1934(M), 1935. WSP 1910: 1936(P), 1937(M), 1940(M), 1946(M), 1957(P). WDR NC-04-1: 1994-2003(M).

REMARKS.--Records good except those for estimated daily discharges, which are poor. Considerable low flow regulation, at times, caused by small power plant at Ivy Dam, 0.4 mi upstream. Minimum discharge for period of record and current water year affected by regulation.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June, 1876, reached a stage of 16.0 ft, from studies by Tennessee Valley Authority (discharge 14,000 ft^3/s). An outstanding but lesser flood occurred in July, 1916 (stage and discharge unknown).

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	138	74	216	141	117	257	278	232	112	152	230	137
2	121	71	185	134	111	222	631	213	132	143	169	115
3	112	75	170	129	134	207	887	200	116	149	183	97
4	103	225	157	125	134	193	652	184	116	131	159	87
5	92	206	145	122	126	187	523	173	102	116	115	82
6	86	146	156	124	122	173	421	166	115	111	123	73
7	82	122	190	121	120	165	356	157	112	292	135	72
8	76	108	164	118	120	274	345	150	246	325	185	65
9	75	96	349	111	122	238	313	141	163	205	194	65
10	72	89	418	107	125	225	267	166	177	163	169	61
11	69	84	441	105	116	214	242	173	151	163	126	58
12	68	263	386	102	111	201	226	143	138	185	107	56
13	96	267	318	122	116	185	288	134	283	176	92	54
14	79	196	263	1,200	156	184	518	134	209	210	101	52
15	74	163	223	499	148	166	409	186	156	220	87	53
16	68	142	197	357	142	173	343	168	133	184	85	56
17	64	128	180	277	138	197	296	145	119	216	80	76
18	63	115	166	219	127	183	262	136	113	181	146	60
19	93	108	160	199	121	175	236	129	144	197	168	47
20	100	101	e147	185	130	169	216	252	178	310	105	49
21	78	94	e143	173	781	162	203	197	197	226	89	46
22	74	89	141	159	660	160	333	169	145	169	78	47
23	69	103	379	e149	429	443	384	163	128	151	154	43
24	74	585	334	e144	356	384	327	149	115	127	132	44
25	72	520	262	139	299	326	289	139	112	114	109	43
26	67	e455	226	133	251	280	268	130	97	103	91	48
27	69	e385	197	123	222	249	262	123	167	96	83	60
28	78	e320	176	112	246	412	236	118	150	115	82	49
29	84	e250	166	114	---	405	251	115	186	127	75	46
30	93	178	158	126	---	356	251	110	197	128	184	47
31	79	---	149	121	---	313	---	104	---	167	208	---
TOTAL	2,568	5,758	6,962	5,990	5,780	7,478	10,513	4,899	4,509	5,352	4,044	1,888
MEAN	82.8	192	225	193	206	241	350	158	150	173	130	62.9
MAX	138	585	441	1,200	781	443	887	252	283	325	230	137
MIN	63	71	141	102	111	160	203	104	97	96	75	43

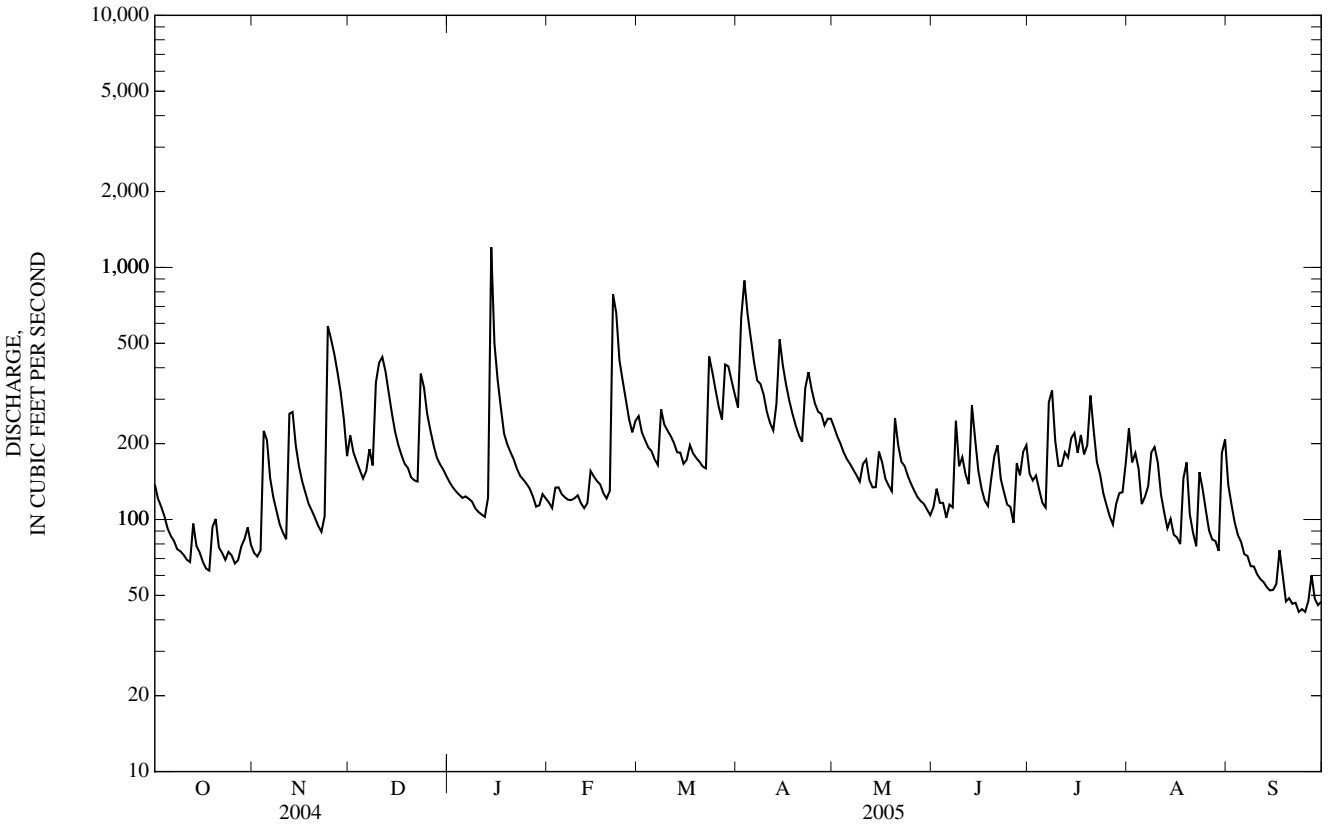
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2005, @BY WATER YEAR (WY)

MEAN	75.3	94.9	134	209	260	304	244	159	112	99.5	87.3	68.7
MAX	367	229	407	636	563	848	574	404	272	280	444	486
(WY)	(1965)	(1950)	(1962)	(1937)	(1957)	(1963)	(1936)	(2003)	(1950)	(1949)	(1940)	(2004)
MIN	19.3	28.9	39.8	46.4	60.9	129	76.1	58.6	43.3	29.8	22.8	20.5
(WY)	(1953)	(1940)	(1940)	(1940)	(1941)	(1970)	(1942)	(1941)	(1953)	(1952)	(1956)	(1998)

03453000 IVY RIVER NEAR MARSHALL, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1934 - 2005[@]	
ANNUAL TOTAL	64,920		65,741			
ANNUAL MEAN	177		180		153	
HIGHEST ANNUAL MEAN					232	1936
LOWEST ANNUAL MEAN					92.1	1941
HIGHEST DAILY MEAN	4,430	Sep 17	1,200	Jan 14	8,010	Mar 12, 1963
LOWEST DAILY MEAN	42	Jul 22	43	Sep 23	8.5	Sep 2, 1953
ANNUAL SEVEN-DAY MINIMUM	46	Aug 17	46	Sep 19	9.8	Aug 28, 1953
MAXIMUM PEAK FLOW			2,470	Jan 14	14,400	Mar 26, 1965
MAXIMUM PEAK STAGE			7.84	Jan 14	17.21	Jan 14, 1995
INSTANTANEOUS LOW FLOW			1.8*	Oct 9	1.8*	Oct 9, 2004
10 PERCENT EXCEEDS	280		325		300	
50 PERCENT EXCEEDS	123		147		97	
90 PERCENT EXCEEDS	64		74		35	

[@] See PERIOD OF RECORD.
* See REMARKS.
e Estimated.



03453500 FRENCH BROAD RIVER AT MARSHALL, NC

LOCATION.--Lat 35°47'11", long 82°39'39", Madison County, Hydrologic Unit 06010105, on right bank 0.7 mi upstream from Hayes Creek, 1.0 mi downstream of Ivy River, 1.5 mi southeast of Marshall, and at mile 126.7.

DRAINAGE AREA.--1,332 mi^2.

PERIOD OF RECORD.--October 1942 to current year.

REVISED RECORDS.--WSP 1436: 1954(M).

GAGE.--Water-stage recorder. Datum of gage is 1,646.79 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Satellite and telephone telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Small diversions from tributaries for water supply. Slight diurnal fluctuation and occasional slight regulation at low flow caused by small reservoirs upstream from station. Prior to July 1963, some regulation by Weaver plant of Carolina Power and Light Company 15 mi upstream, after November 1986 the same power plant was operated by the Metropolitan Sewage Treatment Plant. Minimum discharge for period of record also occurred Sept. 14, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage observed since at least 1791: 22.0 ft, July 16, 1916; discharge: 115,000 ft^3/s. Flood of Aug. 30, 1940, reached a stage of 16.6 ft; discharge, 70,000 ft^3/s, from high water marks, flood profiles, and studies by Tennessee Valley Authority.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7,570	2,110	3,610	2,910	2,450	3,550	4,100	2,730	1,710	4,160	3,620	4,750
2	5,420	2,050	4,000	2,810	2,280	3,130	4,870	2,540	2,810	3,930	3,210	3,390
3	4,600	2,300	3,450	2,720	2,430	2,730	5,590	2,350	4,480	3,590	2,890	2,890
4	4,210	4,530	3,140	2,660	2,860	2,570	4,730	2,240	3,450	3,340	2,700	2,580
5	3,880	6,160	2,930	2,620	2,630	2,490	4,170	2,170	2,750	3,770	2,600	2,410
6	3,600	4,740	2,860	2,580	2,430	2,430	3,770	2,160	2,530	3,290	2,660	2,240
7	3,410	3,330	3,280	2,540	2,330	2,360	3,480	2,100	2,670	7,280	2,890	2,130
8	3,240	2,940	3,530	2,480	2,280	2,660	3,750	2,050	2,750	10,100	4,800	2,040
9	3,110	2,660	4,230	2,530	2,250	2,800	4,200	2,000	3,160	8,330	4,960	1,970
10	3,020	2,480	6,700	2,440	2,250	2,590	3,650	2,250	2,780	5,650	4,060	1,900
11	2,930	2,370	6,300	2,330	2,170	2,450	3,290	2,380	2,870	4,930	3,610	1,830
12	2,810	3,540	4,940	2,290	2,100	2,360	3,100	2,170	3,170	7,680	3,160	1,770
13	3,020	5,400	4,160	2,320	2,090	2,270	3,850	2,000	7,310	7,980	2,860	1,720
14	2,910	4,250	3,670	7,270	2,180	2,280	5,440	1,990	7,910	7,940	3,470	1,680
15	2,700	3,380	3,320	6,270	2,270	2,390	4,540	2,220	7,190	7,720	2,710	1,640
16	2,580	3,040	3,110	4,410	2,210	2,270	3,840	2,220	6,670	6,550	2,530	1,650
17	2,450	2,830	2,980	3,620	2,110	2,550	3,430	2,040	4,460	5,510	2,750	1,750
18	2,380	2,680	2,870	3,170	2,030	2,550	3,200	1,910	3,270	5,550	4,120	1,750
19	2,560	2,560	2,790	2,940	1,970	2,360	3,030	1,840	3,280	5,170	5,070	1,600
20	2,620	2,470	2,650	2,830	1,980	2,260	2,860	2,770	3,690	5,680	3,540	1,520
21	2,480	2,400	2,550	2,760	3,810	2,190	2,740	2,980	3,830	5,690	3,240	1,500
22	2,350	2,320	2,520	2,660	4,920	2,130	2,970	2,520	3,230	4,850	2,860	1,480
23	2,290	2,460	4,730	2,540	3,800	3,670	3,470	2,190	2,850	4,420	4,130	1,450
24	2,420	4,320	7,110	2,360	3,210	4,020	3,190	2,030	2,540	3,880	3,670	1,440
25	2,370	6,210	6,820	2,390	3,080	3,260	2,840	1,900	2,350	3,450	3,010	1,400
26	2,250	5,090	5,340	2,340	2,790	2,860	2,680	1,790	2,220	3,160	2,640	1,460
27	2,200	3,950	4,050	2,300	2,560	2,720	2,690	1,750	5,300	2,960	2,830	1,560
28	2,190	3,790	3,580	2,210	2,770	6,800	2,580	1,720	8,800	3,560	2,550	1,510
29	2,340	3,520	3,330	2,180	---	8,090	2,540	1,700	7,050	3,820	2,240	1,430
30	2,370	3,150	3,180	2,370	---	7,000	2,540	1,660	4,850	3,980	4,140	1,430
31	2,200	---	3,040	2,750	---	4,750	---	1,640	---	3,720	6,220	---
TOTAL	94,480	103,030	120,770	90,600	72,240	98,540	107,130	66,010	121,930	161,640	105,740	57,870
MEAN	3,048	3,434	3,896	2,923	2,580	3,179	3,571	2,129	4,064	5,214	3,411	1,929
MAX	7,570	6,210	7,110	7,270	4,920	8,090	5,590	2,980	8,800	10,100	6,220	4,750
MIN	2,190	2,050	2,520	2,180	1,970	2,130	2,540	1,640	1,710	2,960	2,240	1,400
CFSM	2.29	2.58	2.92	2.19	1.94	2.39	2.68	1.60	3.05	3.91	2.56	1.45
IN.	2.64	2.88	3.37	2.53	2.02	2.75	2.99	1.84	3.41	4.51	2.95	1.62

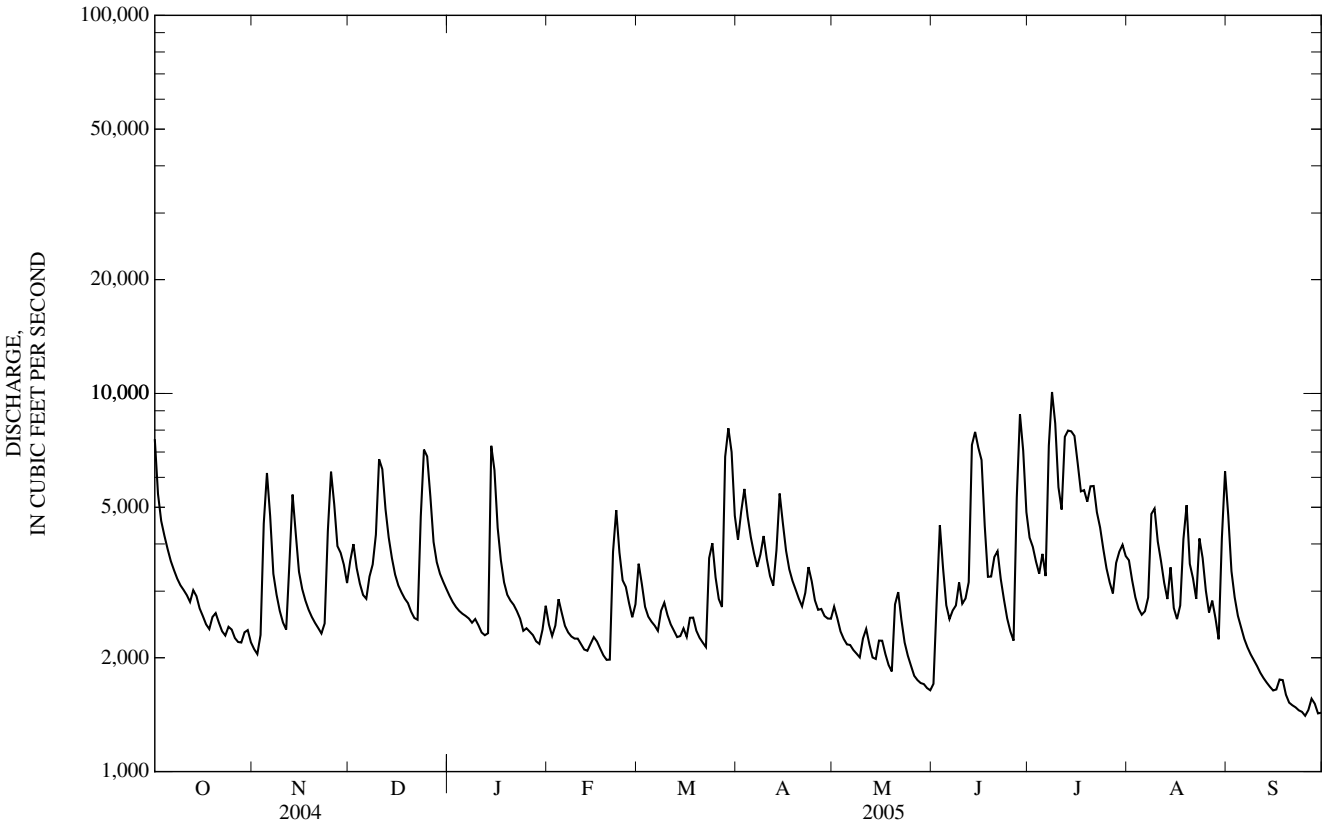
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2005, BY WATER YEAR (WY)

MEAN	1,762	2,032	2,435	2,873	3,301	3,695	3,381	2,664	2,201	1,818	1,780	1,681
MAX	8,172	5,640	5,465	6,279	7,373	7,170	6,149	5,585	4,191	5,214	4,905	10,430
(WY)	(1965)	(1980)	(1962)	(1998)	(1998)	(1975)	(1983)	(2003)	(1989)	(2005)	(1994)	(2004)
MIN	450	651	778	715	1,547	1,235	1,191	1,066	700	708	577	384
(WY)	(1955)	(1955)	(1956)	(1956)	(2002)	(1988)	(1986)	(1988)	(1988)	(1986)	(2002)	(1954)

03453500 FRENCH BROAD RIVER AT MARSHALL, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1943 - 2005	
ANNUAL TOTAL	1,166,330		1,199,980			
ANNUAL MEAN	3,187		3,288		2,464	
HIGHEST ANNUAL MEAN					3,573	1949
LOWEST ANNUAL MEAN					1,229	1988
HIGHEST DAILY MEAN	32,400	Sep 8	10,100	Jul 8	32,400	Sep 8, 2004
LOWEST DAILY MEAN	1,200	Aug 23	1,400	Sep 25	292	Sep 27, 1954
ANNUAL SEVEN-DAY MINIMUM	1,310	Aug 17	1,460	Sep 24	313	Sep 24, 1954
MAXIMUM PEAK FLOW			12,900	Jul 7	54,000	Nov 6, 1977
MAXIMUM PEAK STAGE			5.92	Jul 7	13.64	Nov 6, 1977
INSTANTANEOUS LOW FLOW			1,210	Sep 18	193*	Sep 13, 1954
ANNUAL RUNOFF (CFSM)	2.39		2.47		1.85	
ANNUAL RUNOFF (INCHES)	32.57		33.51		25.13	
10 PERCENT EXCEEDS	4,740		5,360		4,390	
50 PERCENT EXCEEDS	2,280		2,830		1,970	
90 PERCENT EXCEEDS	1,570		2,000		898	

* See REMARKS.



03455500 WEST FORK PIGEON RIVER ABOVE LAKE LOGAN NEAR HAZELWOOD, NC

LOCATION.--Lat 35°23'46", long 82°56'15", Haywood County, Hydrologic Unit 06010106, on right bank at upstream side of bridge on Secondary Road 1216, 600 ft upstream from Big Creek, 1.1 mi upstream from Lake Logan, 6.7 mi southeast of Hazelwood, and at mile 9.3.

DRAINAGE AREA.--27.6 mi^2.

PERIOD OF RECORD.--February 1954 to current year.

REVISED RECORDS.--WDR NC-04-1: 1994(M).

GAGE.--Water-stage recorder. Datum of gage is 2,976.00 ft above NGVD of 1929. Satellite and telephone telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Maximum gage height for period of record from high-water mark. Maximum discharge for period of record from rating curve extended above 7,500 ft^3/s on basis of slope area measurement of peak flow. Minimum discharge for period of record also occurred Sept. 30, 1954. Minimum discharge for current water year also occurred Sept. 25, 26, 30.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	243	62	241	104	70	89	128	99	101	232	110	165
2	215	68	158	100	71	89	251	89	217	174	94	134
3	192	105	143	96	146	83	156	85	138	144	86	115
4	174	433	132	93	89	81	148	81	107	140	83	103
5	159	163	123	89	82	90	136	79	99	120	80	94
6	146	125	196	89	80	82	124	78	109	108	75	87
7	135	109	248	85	78	96	150	73	96	552	95	81
8	125	99	182	97	81	287	236	71	166	235	117	76
9	120	92	309	84	86	132	160	69	123	176	97	72
10	112	88	237	80	85	117	139	109	111	154	85	67
11	106	88	192	78	71	109	128	93	138	418	76	64
12	106	327	170	76	70	102	131	91	1,080	468	70	62
13	118	166	155	270	77	102	164	91	806	239	80	59
14	96	135	140	341	101	119	157	83	315	201	86	56
15	91	121	131	148	87	99	133	96	229	182	68	54
16	85	112	126	129	83	121	122	85	187	163	65	65
17	81	105	119	e115	77	111	114	78	161	147	66	56
18	79	99	112	e111	71	99	109	73	145	131	66	51
19	97	94	107	102	70	95	103	71	145	133	65	48
20	81	92	e104	98	77	92	98	185	157	147	61	47
21	75	87	100	96	225	87	94	113	131	122	57	45
22	72	85	101	93	145	104	119	96	116	202	73	45
23	70	119	601	e90	113	190	121	88	107	145	68	43
24	69	440	193	e86	135	120	98	81	99	117	58	42
25	66	246	160	82	113	108	93	78	92	106	54	40
26	64	172	144	81	102	101	93	74	97	98	53	65
27	62	164	131	76	96	121	96	71	114	91	53	52
28	71	177	125	72	103	479	88	70	149	106	53	43
29	101	144	118	78	---	165	86	67	139	213	58	46
30	71	134	113	78	---	140	120	65	157	122	1,050	42
31	66	---	109	72	---	135	---	62	---	115	259	---
TOTAL	3,348	4,451	5,220	3,289	2,684	3,945	3,895	2,644	5,831	5,701	3,461	2,019
MEAN	108	148	168	106	95.9	127	130	85.3	194	184	112	67.3
MAX	243	440	601	341	225	479	251	185	1,080	552	1,050	165
MIN	62	62	100	72	70	81	86	62	92	91	53	40
CFSM	3.91	5.38	6.10	3.84	3.47	4.61	4.70	3.09	7.04	6.66	4.05	2.44
IN.	4.51	6.00	7.04	4.43	3.62	5.32	5.25	3.56	7.86	7.68	4.66	2.72

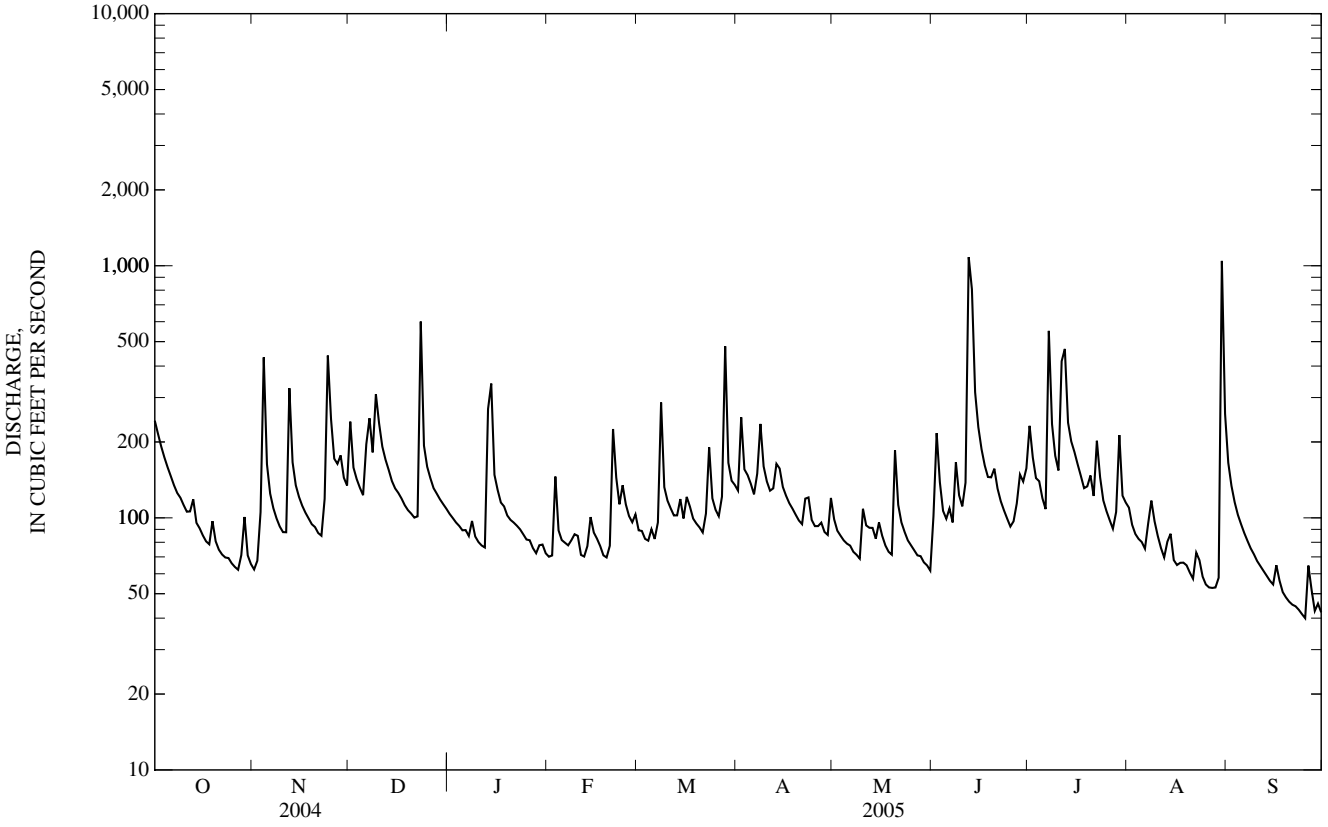
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2005, BY WATER YEAR (WY)

MEAN	71.8	90.9	110	125	151	162	140	108	83.6	61.1	58.5	66.9
MAX	229	301	234	272	355	312	291	289	213	207	187	575
(WY)	(1965)	(1980)	(1962)	(1998)	(1966)	(1975)	(1983)	(1976)	(1967)	(1967)	(1994)	(2004)
MIN	13.5	26.8	29.7	34.0	68.7	53.8	47.8	49.2	30.8	23.3	16.4	13.0
(WY)	(1955)	(1979)	(1966)	(1981)	(1968)	(1988)	(1986)	(2001)	(1988)	(1993)	(1998)	(1954)

03455500 WEST FORK PIGEON RIVER ABOVE LAKE LOGAN NEAR HAZELWOOD, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1954 - 2005	
ANNUAL TOTAL	49,722		46,488			
ANNUAL MEAN	136		127		103	
HIGHEST ANNUAL MEAN					143	1979
LOWEST ANNUAL MEAN					59.6	1986
HIGHEST DAILY MEAN	2,910	Sep 8	1,080	Jun 12	4,500	Feb 13, 1966
LOWEST DAILY MEAN	36	Aug 27	40	Sep 25	10	Sep 28, 1954
ANNUAL SEVEN-DAY MINIMUM	40	Aug 17	44	Sep 19	11	Sep 11, 1998
MAXIMUM PEAK FLOW			3,690	Aug 30	12,700*	Sep 17, 2004
MAXIMUM PEAK STAGE			6.39	Aug 30	10.83*	Sep 17, 2004
INSTANTANEOUS LOW FLOW			40*	Sep 24	9.4*	Sep 29, 1954
ANNUAL RUNOFF (CFSM)	4.92		4.61		3.72	
ANNUAL RUNOFF (INCHES)	67.02		62.66		50.49	
10 PERCENT EXCEEDS	230		192		186	
50 PERCENT EXCEEDS	78		101		71	
90 PERCENT EXCEEDS	46		66		27	

* See REMARKS.
e Estimated.



03455773 LAKE LOGAN AT DAM NEAR HAZELWOOD, NC

LOCATION.--Lat 35°25'21", long 82°55'20", Haywood County, Hydrologic Unit 06010106, at Lake Logan Dam on West Fork Pigeon River near Hazelwood, and at river mi 7.0.

DRAINAGE AREA.--33.3 mi^2.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--October 1997 to current year. Records for October 1986 to January 1991 and November 1995 to September 1997 are unpublished and available in the USGS District Office, Raleigh, NC.

GAGE.--Water-stage recorder. Datum of gage is 2,856.23 ft above NGVD of 1929. Satellite and telephone telemetry at station.

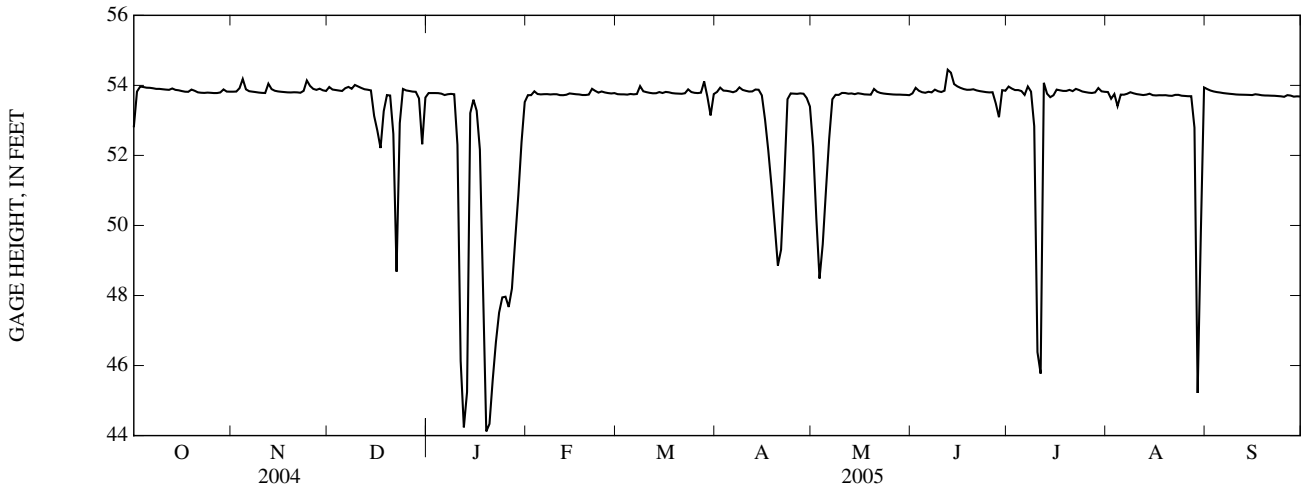
REMARKS.--Records good. Total capacity is 1,040 ft^3/s-day (top of flashboards), all of which is usable. Filling began November 1931. (See station 0345577330).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 58.60 ft, Sept. 17, 2004; minimum gage height, 42.95 ft, Jan. 19, 2005.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 55.59 ft, Aug. 30; minimum gage height, 42.95 ft, Jan. 19.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52.80	53.82	53.95	53.78	53.72	53.75	53.81	52.24	53.77	53.97	53.81	53.89
2	53.82	53.82	53.88	53.78	53.72	53.74	53.94	50.20	53.93	53.91	53.62	53.85
3	53.97	53.92	53.87	53.78	53.83	53.74	53.85	48.48	53.85	53.87	53.75	53.83
4	53.95	54.18	53.85	53.78	53.75	53.74	53.84	49.46	53.80	53.87	53.41	53.81
5	53.93	53.89	53.84	53.76	53.74	53.75	53.83	51.00	53.79	53.84	53.74	53.80
6	53.93	53.83	53.92	53.72	53.75	53.74	53.80	52.47	53.82	53.73	53.73	53.78
7	53.92	53.82	53.96	53.75	53.75	53.75	53.84	53.60	53.80	53.97	53.76	53.77
8	53.90	53.81	53.90	53.76	53.74	53.98	53.94	53.73	53.88	53.82	53.80	53.76
9	53.90	53.79	54.01	53.75	53.75	53.83	53.87	53.73	53.83	52.83	53.77	53.75
10	53.89	53.79	53.97	52.30	53.75	53.81	53.84	53.78	53.81	46.38	53.75	53.74
11	53.88	53.78	53.93	46.13	53.72	53.79	53.82	53.78	53.85	45.77	53.74	53.74
12	53.87	54.05	53.89	44.24	53.72	53.77	53.83	53.76	54.45	54.07	53.72	53.73
13	53.91	53.89	53.88	45.24	53.73	53.78	53.88	53.77	54.36	53.76	53.74	53.73
14	53.87	53.85	53.86	53.21	53.77	53.81	53.87	53.75	54.04	53.66	53.76	53.73
15	53.86	53.83	53.13	53.59	53.76	53.78	53.71	53.77	53.97	53.72	53.72	53.72
16	53.84	53.82	52.71	53.27	53.75	53.81	53.02	53.76	53.93	53.88	53.71	53.75
17	53.82	53.81	52.21	52.16	53.74	53.80	52.14	53.74	53.89	53.86	53.72	53.73
18	53.82	53.80	53.27	48.18	53.73	53.78	51.13	53.74	53.87	53.84	53.72	53.72
19	53.88	53.80	53.72	44.12	53.73	53.77	50.02	53.73	53.88	53.84	53.72	53.71
20	53.85	53.80	53.71	44.33	53.74	53.76	48.86	53.90	53.89	53.87	53.71	53.71
21	53.80	53.80	52.61	45.58	53.90	53.76	49.31	53.82	53.86	53.83	53.70	53.70
22	53.79	53.79	48.68	46.67	53.84	53.78	51.30	53.78	53.84	53.90	53.73	53.70
23	53.78	53.84	52.92	47.51	53.79	53.89	53.61	53.77	53.82	53.87	53.73	53.69
24	53.79	54.14	53.90	47.95	53.83	53.81	53.77	53.76	53.81	53.83	53.71	53.69
25	53.79	53.99	53.86	47.97	53.80	53.79	53.76	53.75	53.80	53.81	53.70	53.67
26	53.78	53.90	53.84	47.67	53.78	53.78	53.76	53.74	53.80	53.79	53.69	53.72
27	53.78	53.87	53.82	48.20	53.77	53.79	53.77	53.74	53.49	53.78	53.69	53.71
28	53.80	53.91	53.82	49.56	53.78	54.11	53.76	53.74	53.09	53.80	52.79	53.68
29	53.88	53.86	53.63	50.87	---	53.68	53.64	53.73	53.86	53.92	45.22	53.69
30	53.82	53.84	52.32	52.38	---	53.14	53.40	53.73	53.85	53.83	49.82	53.68
31	53.82	---	53.65	53.52	---	53.75	---	53.72	---	53.82	53.94	---
MEAN	53.82	53.87	53.44	50.27	53.76	53.77	53.10	53.15	53.85	53.31	53.29	53.74
MAX	53.97	54.18	54.01	53.78	53.90	54.11	53.94	53.90	54.45	54.07	53.94	53.89
MIN	52.80	53.78	48.68	44.12	53.72	53.14	48.86	48.48	53.09	45.77	45.22	53.67



03455773 LAKE LOGAN AT DAM NEAR HAZELWOOD, NC—Continued

PRECIPITATION RECORDS

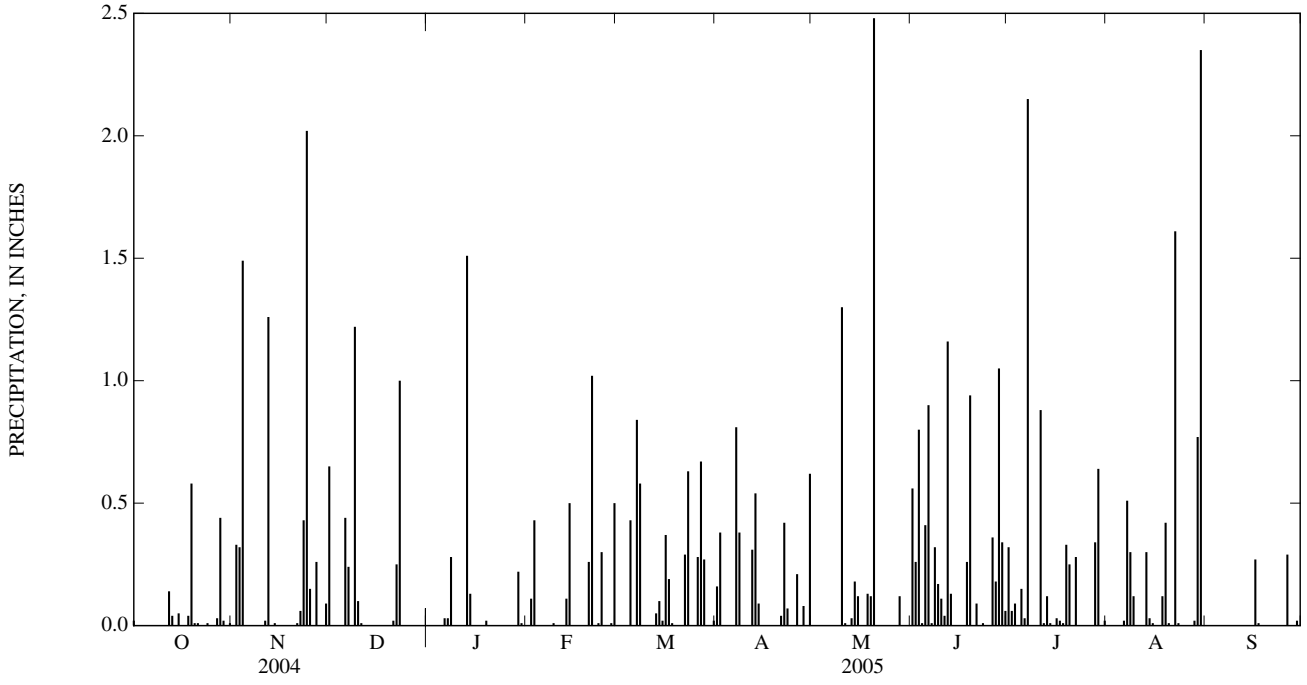
PERIOD OF RECORD.--December 1998 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite and telephone telemetry at station.

REMARKS.--Gage is operated in cooperation with Blue Ridge Paper Products, Inc. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.02	0.00	0.65	0.00	0.00	0.00	0.16	0.00	0.56	0.32	0.00	0.00
2	0.00	0.33	0.00	0.00	0.11	0.00	0.38	0.00	0.26	0.06	0.00	0.00
3	0.00	0.32	0.00	0.00	0.43	0.00	0.00	0.00	0.80	0.09	0.00	0.00
4	0.00	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.41	0.15	0.00	0.00
6	0.00	0.00	0.44	0.03	0.00	0.00	0.00	0.00	0.90	0.03	0.02	0.00
7	0.00	0.00	0.24	0.03	0.00	0.84	0.81	0.00	0.01	2.15	0.51	0.00
8	0.00	0.00	0.00	0.28	0.00	0.58	0.38	0.00	0.32	0.00	0.30	0.00
9	0.00	0.00	1.22	0.00	0.01	0.00	0.00	0.00	0.17	0.00	0.12	0.00
10	0.00	0.00	0.10	0.00	0.00	0.00	0.00	1.30	0.11	0.00	0.00	0.00
11	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.01	0.04	0.88	0.00	0.00
12	0.14	1.26	0.00	0.00	0.00	0.00	0.31	0.00	1.16	0.01	0.00	0.00
13	0.04	0.00	0.00	1.51	0.11	0.05	0.54	0.03	0.13	0.12	0.30	0.00
14	0.00	0.01	0.00	0.13	0.50	0.10	0.09	0.18	0.00	0.01	0.03	0.00
15	0.05	0.00	0.00	0.00	0.00	0.02	0.00	0.12	0.00	0.00	0.01	0.00
16	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.03	0.00	0.27
17	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.02	0.00	0.01
18	0.04	0.00	0.00	0.00	0.00	0.01	0.00	0.13	0.26	0.01	0.12	0.00
19	0.58	0.00	0.00	0.02	0.00	0.00	0.00	0.12	0.94	0.33	0.42	0.00
20	0.01	0.00	0.00	0.00	0.26	0.00	0.00	2.48	0.00	0.25	0.01	0.00
21	0.01	0.01	0.02	0.00	1.02	0.00	0.04	0.00	0.09	0.00	0.00	0.00
22	0.00	0.06	0.25	0.00	0.00	0.29	0.42	0.00	0.00	0.28	1.61	0.00
23	0.00	0.43	1.00	0.00	0.01	0.63	0.07	0.00	0.01	0.00	0.01	0.00
24	0.01	2.02	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.28	0.21	0.00	0.36	0.00	0.00	0.29
27	0.03	0.26	0.00	0.00	0.01	0.67	0.00	0.00	0.18	0.00	0.00	0.00
28	0.44	0.00	0.00	0.00	0.50	0.27	0.08	0.12	1.05	0.34	0.02	0.00
29	0.02	0.00	0.00	0.22	---	0.00	0.00	0.00	0.34	0.64	0.77	0.02
30	0.00	0.09	0.00	0.01	---	0.00	0.62	0.00	0.06	0.00	2.35	0.00
31	0.01	---	0.00	0.00	---	0.02	---	0.00	---	0.02	0.00	---
TOTAL	1.40	6.45	3.93	2.23	3.26	4.75	4.11	4.49	8.17	5.74	6.60	0.59



0345577330 WEST FORK PIGEON RIVER NEAR RETREAT, NC

LOCATION.--Lat 35°25'36", long 82°55'11", Haywood County, Hydrologic Unit 06010106, on right bank at upstream side of bridge on State Highway 215, and 1.6 mi southwest of Retreat.

DRAINAGE AREA.--33.5 mi^2.

PERIOD OF RECORD.--March 1988 to current year.

REVISED RECORDS.--WRD NC-04-1: 1990-1994(M), 1996(M).

GAGE.--Water-stage recorder and crest-stage gages. Elevation of gage is 2,839 ft above NGVD of 1929, from topographic map. Satellite and telephone telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Some low flow regulation, at times, caused by Lake Logan (station 03455773). Maximum discharge for period of record from rating curve extended above 4,000 ft^3/s on basis of computation of peak flow over dam at Lake Logan. Maximum gage-height for period of record from high-water mark at gage.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e330	66	324	140	84	125	115	208	75	e340	145	205
2	e250	69	212	132	84	113	301	200	305	e270	122	161
3	e270	140	187	126	e200	111	160	105	171	e210	107	140
4	e210	e506	167	121	125	108	147	e30	110	e205	109	124
5	e190	205	153	115	108	127	129	e23	91	e180	95	114
6	e170	140	251	115	104	112	110	e24	128	e170	93	106
7	e160	118	355	105	100	131	144	e30	103	673	115	98
8	e150	102	255	128	108	e410	289	41	208	418	154	92
9	e145	89	412	105	116	212	174	39	147	e440	125	87
10	139	81	356	e290	115	182	136	100	115	e495	107	82
11	130	80	278	e326	e96	165	118	83	165	e190	94	78
12	124	386	242	106	e92	151	119	66	1,110	501	84	74
13	155	210	215	53	e105	148	186	75	993	332	93	71
14	114	157	191	240	e130	177	180	57	488	280	115	68
15	107	137	253	233	125	144	163	75	371	248	82	65
16	99	124	181	219	112	182	166	62	312	225	77	76
17	89	114	148	e280	101	168	163	51	271	202	81	70
18	88	104	e102	e360	87	143	161	47	244	179	80	58
19	121	96	139	274	85	136	157	44	249	175	82	54
20	104	91	e134	49	101	129	126	245	264	209	74	53
21	86	84	e290	51	e280	121	e54	117	224	169	70	51
22	80	81	270	51	232	139	e36	84	199	249	95	50
23	75	132	454	52	168	299	58	69	184	204	90	50
24	75	509	298	66	205	186	76	60	168	155	72	48
25	70	348	236	156	169	162	65	56	155	140	67	47
26	66	229	208	86	146	151	68	53	163	127	64	69
27	64	209	186	32	136	166	72	47	e240	116	62	63
28	73	239	175	e27	153	562	62	46	144	131	e210	51
29	138	185	230	e30	---	212	78	41	e245	272	e350	52
30	83	169	157	e33	---	130	133	38	e180	165	582	51
31	71	---	96	39	---	107	---	34	---	148	326	---
TOTAL	4,026	5,200	7,155	4,140	3,667	5,409	3,946	2,250	7,822	7,818	4,022	2,408
MEAN	130	173	231	134	131	174	132	72.6	261	252	130	80.3
MAX	330	509	454	360	280	562	301	245	1,110	673	582	205
MIN	64	66	96	27	84	107	36	23	75	116	62	47

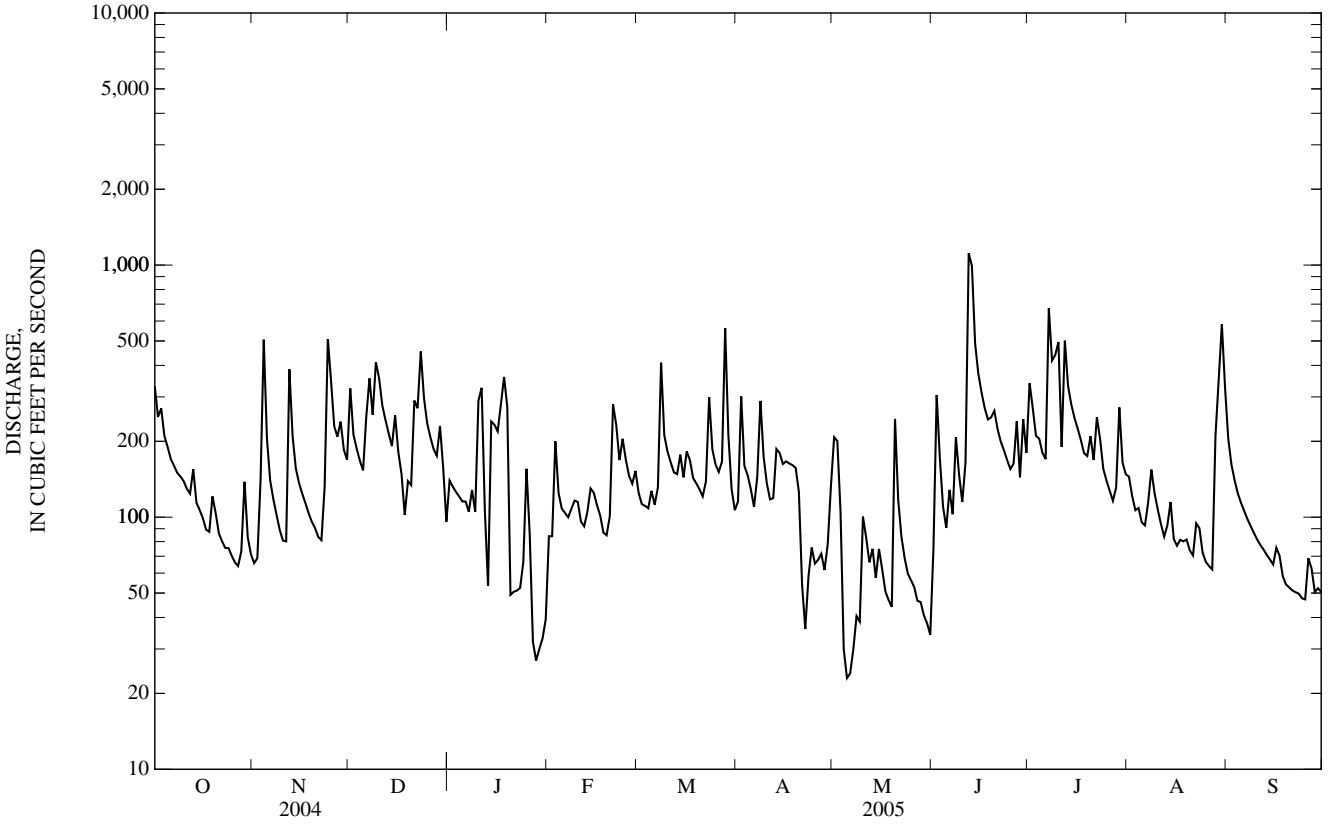
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2005, BY WATER YEAR (WY)

MEAN	84.2	110	125	164	183	190	150	118	103	77.9	76.8	103
MAX	262	265	239	314	360	309	268	244	261	252	220	732
(WY)	(1996)	(1993)	(1993)	(1996)	(1990)	(1990)	(1994)	(2003)	(2005)	(2005)	(1994)	(2004)
MIN	18.5	34.7	52.1	83.4	81.1	62.6	72.2	48.1	40.0	31.3	24.7	17.3
(WY)	(1999)	(1999)	(1989)	(2004)	(2002)	(1988)	(1995)	(2001)	(1988)	(1993)	(1998)	(1998)

0345577330 WEST FORK PIGEON RIVER NEAR RETREAT, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1988 - 2005	
ANNUAL TOTAL	61,083		57,863			
ANNUAL MEAN	167		159		126	
HIGHEST ANNUAL MEAN					159	2005
LOWEST ANNUAL MEAN					69.4	2001
HIGHEST DAILY MEAN	3,630	Sep 8	1,110	Jun 12	3,630	Sep 8, 2004
LOWEST DAILY MEAN	32	Aug 27	23	May 5	15	Sep 27, 1998
ANNUAL SEVEN-DAY MINIMUM	39	Aug 21	41	May 4	16	Sep 11, 1998
MAXIMUM PEAK FLOW			2,760	Aug 30	15,600*	Sep 17, 2004
MAXIMUM PEAK STAGE			5.40	Aug 30	14.15*	Sep 17, 2004
INSTANTANEOUS LOW FLOW			NOT DETERMINED		12	Jul 19, 2001
10 PERCENT EXCEEDS	292		284		236	
50 PERCENT EXCEEDS	91		129		87	
90 PERCENT EXCEEDS	49		54		31	

* See REMARKS.
e Estimated.



03456100 WEST FORK PIGEON RIVER AT BETHEL, NC

LOCATION.--Lat 35°27'50", long 82°54'00", Haywood County, Hydrologic Unit 06010106, on left bank 20 ft downstream of bridge on Secondary Road 1112, 0.6 mi southwest of Bethel, 1.6 mi upstream from confluence with East Fork Pigeon River, and 5.6 mi downstream of Lake Logan.

DRAINAGE AREA.--58.4 mi^2.

PERIOD OF RECORD.--January 1981 to current year.

REVISED RECORDS.--WDR NC-04-1: 1983(M), 1994(M).

GAGE.--Water-stage recorder. Datum of gage is 2,667.78 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Satellite and telephone telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Considerable regulation, at times, caused by Lake Logan (station 03455773). Maximum discharge for period of record from rating curve extended above 7,000 ft^3/s on basis of slope-area measurement of peak flow. Maximum gage height for period of record from high-water mark in gage. Minimum discharge for current water year also occurred Aug. 5.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	463	123	366	186	122	157	243	272	139	364	171	282
2	332	122	270	178	121	142	392	263	377	292	150	223
3	361	164	245	171	214	141	279	199	262	235	133	190
4	327	531	226	e165	152	137	263	72	225	227	139	167
5	299	273	211	e160	136	155	245	71	195	202	113	153
6	274	200	272	e155	132	142	223	70	230	197	119	140
7	251	175	369	150	128	148	245	94	214	761	135	130
8	231	161	292	168	132	429	387	126	276	452	186	122
9	222	148	437	149	137	243	e290	123	247	466	154	115
10	211	139	420	320	137	215	e255	188	210	521	137	108
11	201	136	338	351	e125	198	237	191	245	231	121	103
12	193	411	300	154	e120	183	e230	154	1,270	599	110	98
13	214	268	272	132	e125	182	e310	171	1,180	398	110	94
14	183	216	247	331	e140	204	e300	146	517	340	144	90
15	170	194	287	279	e136	178	e280	162	389	297	107	86
16	155	180	220	256	134	208	275	151	323	271	100	97
17	149	169	211	306	128	202	268	136	280	247	103	95
18	147	160	135	383	117	177	261	130	260	222	103	81
19	174	152	186	301	114	170	255	127	274	217	110	76
20	158	146	e180	124	122	162	234	382	284	253	96	74
21	143	139	303	122	297	155	114	266	246	212	91	72
22	135	135	294	120	245	163	91	213	217	266	122	71
23	130	178	548	114	189	322	152	186	198	244	128	69
24	128	564	379	128	214	219	181	168	181	190	97	66
25	124	439	297	178	189	197	168	156	167	172	88	65
26	120	308	265	132	170	188	168	147	175	159	85	85
27	116	276	241	95	162	195	173	138	262	147	83	86
28	119	305	227	65	179	727	158	135	169	151	233	68
29	169	250	248	71	---	369	169	127	264	296	374	68
30	127	231	222	74	---	279	221	119	203	196	1,020	68
31	121	---	147	85	---	237	---	112	---	175	461	---
TOTAL	6,147	6,893	8,655	5,603	4,317	6,824	7,067	4,995	9,479	9,000	5,323	3,242
MEAN	198	230	279	181	154	220	236	161	316	290	172	108
MAX	463	564	548	383	297	727	392	382	1,270	761	1,020	282
MIN	116	122	135	65	114	137	91	70	139	147	83	65

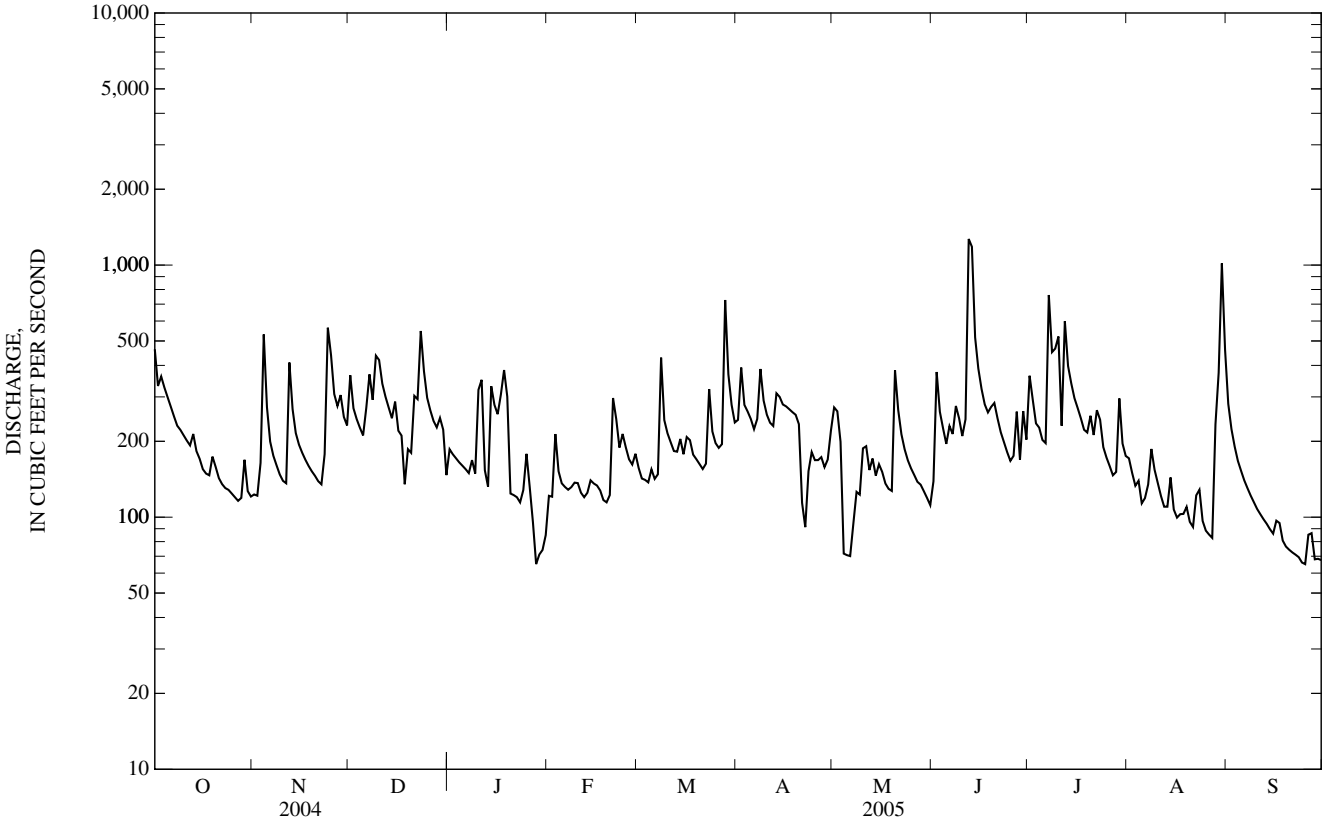
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2005, BY WATER YEAR (WY)

MEAN	96.6	134	171	200	247	259	221	171	124	96.9	92.1	114
MAX	336	341	334	450	522	461	481	381	316	290	317	1,057
(WY)	(1996)	(1993)	(1984)	(1998)	(1998)	(1997)	(1983)	(2003)	(2005)	(2005)	(1994)	(2004)
MIN	30.5	43.0	83.5	53.5	102	83.6	83.5	81.0	53.0	42.0	29.3	27.6
(WY)	(1999)	(1982)	(1989)	(1981)	(1986)	(1988)	(1986)	(2001)	(1988)	(2002)	(1993)	(1998)

03456100 WEST FORK PIGEON RIVER AT BETHEL, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1981 - 2005	
ANNUAL TOTAL	87,974		77,545			
ANNUAL MEAN	240		212		162	
HIGHEST ANNUAL MEAN					224	2004
LOWEST ANNUAL MEAN					87.5	1988
HIGHEST DAILY MEAN	5,720	Sep 17	1,270	Jun 12	5,720	Sep 17, 2004
LOWEST DAILY MEAN	64	Aug 27	65	Jan 28	9.2	Sep 2, 1986
ANNUAL SEVEN-DAY MINIMUM	69	Aug 22	70	Sep 19	16	Sep 2, 1986
MAXIMUM PEAK FLOW			4,450	Aug 30	19,000*	Sep 17, 2004
MAXIMUM PEAK STAGE			7.39	Aug 30	16.27*	Sep 17, 2004
INSTANTANEOUS LOW FLOW			57*	Aug 4	4.2	Sep 5, 1986
10 PERCENT EXCEEDS	367		339		305	
50 PERCENT EXCEEDS	143		179		113	
90 PERCENT EXCEEDS	87		102		44	

* See REMARKS.
e Estimated.



03456500 EAST FORK PIGEON RIVER NEAR CANTON, NC

LOCATION.--Lat 35°27'42", long 82°52'11", Haywood County, Hydrologic Unit 06010106, on right bank 800 ft upstream from bridge on U.S. Highway 276, 0.3 mi downstream of Dix Creek, 1.6 mi upstream from confluence with West Fork Pigeon River, and 5.2 mi southwest of Canton.

DRAINAGE AREA.--51.5 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1954 to current year.

REVISED RECORDS.--WDR NC-73-1: 1966(M), 1972(M).

GAGE.--Water-stage recorder. Datum of gage is 2,674.34 ft above NGVD of 1929 (Tennessee Valley Authority bench mark). Satellite and telephone telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Maximum discharge for period of record, from rating curve extended above 6,000 ft^3/s, on basis of slope-area measurement of peak flow. Minimum discharge for period of record also occurred Dec. 11, 1981, result of freezeup, and Oct. 9, 1994.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	492	114	279	158	99	119	254	137	120	190	148	237
2	413	112	225	150	97	107	354	125	452	194	132	192
3	360	119	207	143	145	105	268	119	287	162	119	166
4	320	369	191	137	114	103	243	114	237	164	113	148
5	288	205	177	131	105	114	221	112	200	152	106	136
6	268	159	182	127	103	110	202	110	181	140	e110	126
7	249	142	208	120	100	109	211	104	163	681	e125	119
8	222	132	184	125	103	238	302	100	207	444	e210	112
9	214	123	285	115	107	161	248	95	196	306	173	105
10	204	118	289	110	104	148	226	120	185	263	155	99
11	184	116	244	106	95	140	210	120	229	492	137	95
12	185	269	220	103	93	132	204	97	1,330	801	123	92
13	192	190	203	172	93	126	246	99	1,370	469	116	87
14	163	163	186	492	107	131	254	92	708	368	112	83
15	168	151	172	244	103	119	225	98	503	312	104	80
16	143	143	164	208	95	132	207	92	383	289	98	84
17	138	138	156	e183	91	130	193	85	312	249	98	82
18	139	134	148	e171	86	118	181	82	277	231	103	74
19	146	135	142	e159	85	116	170	82	281	261	99	70
20	145	120	e137	149	90	111	160	270	249	307	89	68
21	124	114	e133	143	150	107	152	183	219	278	103	66
22	123	112	127	136	139	112	163	150	195	255	108	64
23	121	127	801	e131	117	234	172	134	176	234	108	63
24	120	469	384	e126	132	173	149	121	161	197	86	61
25	119	387	299	e122	121	157	139	112	149	178	81	60
26	112	273	257	117	113	151	136	104	157	163	77	70
27	112	240	225	110	110	163	137	98	183	150	75	69
28	113	256	206	103	134	951	127	96	194	146	77	59
29	130	213	191	110	---	453	124	91	201	209	85	61
30	112	195	179	115	---	339	153	87	170	163	754	58
31	112	---	167	104	---	288	---	83	---	146	375	---
TOTAL	5,931	5,538	6,968	4,620	3,031	5,697	6,031	3,512	9,675	8,594	4,399	2,886
MEAN	191	185	225	149	108	184	201	113	322	277	142	96.2
MAX	492	469	801	492	150	951	354	270	1,370	801	754	237
MIN	112	112	127	103	85	103	124	82	120	140	75	58
CFSM	3.72	3.58	4.36	2.89	2.10	3.57	3.90	2.20	6.26	5.38	2.76	1.87
IN.	4.28	4.00	5.03	3.34	2.19	4.12	4.36	2.54	6.99	6.21	3.18	2.08

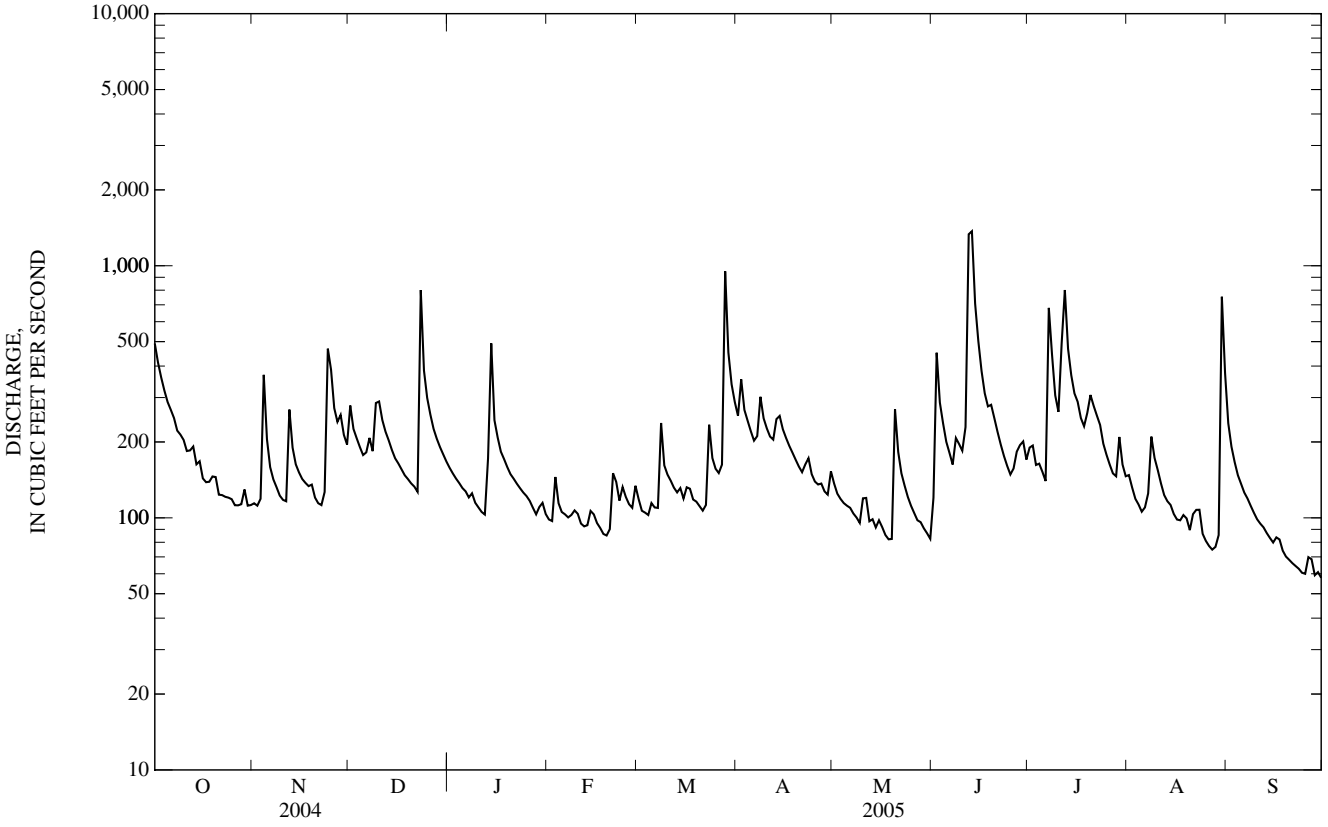
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2005, BY WATER YEAR (WY)

MEAN	108	133	147	165	201	230	206	155	118	78.3	77.9	99.3
MAX	363	484	337	444	517	541	480	453	339	277	263	1,057
(WY)	(1965)	(1980)	(1962)	(1998)	(1998)	(1979)	(1957)	(1976)	(1967)	(2005)	(1994)	(2004)
MIN	17.1	27.9	42.4	33.8	71.9	60.9	63.2	59.8	35.7	25.3	25.1	16.0
(WY)	(1955)	(1955)	(1956)	(1956)	(1986)	(1988)	(1986)	(1986)	(1988)	(1986)	(2002)	(1954)

03456500 EAST FORK PIGEON RIVER NEAR CANTON, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1954 - 2005	
ANNUAL TOTAL	77,854		66,882			
ANNUAL MEAN	213		183		143	
HIGHEST ANNUAL MEAN					207	2004
LOWEST ANNUAL MEAN					71.9	1988
HIGHEST DAILY MEAN	6,200	Sep 8	1,370	Jun 13	6,200	Sep 8, 2004
LOWEST DAILY MEAN	43	Jul 23	58	Sep 30	13	Sep 13, 1998
ANNUAL SEVEN-DAY MINIMUM	47	Jul 18	63	Sep 24	13	Sep 12, 1998
MAXIMUM PEAK FLOW			2,870	Jun 12	12,900*	Sep 17, 2004
MAXIMUM PEAK STAGE			5.27	Jun 12	13.05	Sep 17, 2004
INSTANTANEOUS LOW FLOW			54	Sep 30	12*	Jan 9, 1956
ANNUAL RUNOFF (CFSM)	4.13		3.56		2.79	
ANNUAL RUNOFF (INCHES)	56.24		48.31		37.85	
10 PERCENT EXCEEDS	321		288		266	
50 PERCENT EXCEEDS	117		143		101	
90 PERCENT EXCEEDS	65		92		36	

* See REMARKS.
e Estimated.



03456500 EAST FORK PIGEON RIVER NEAR CANTON, NC—Continued

PRECIPITATION RECORDS

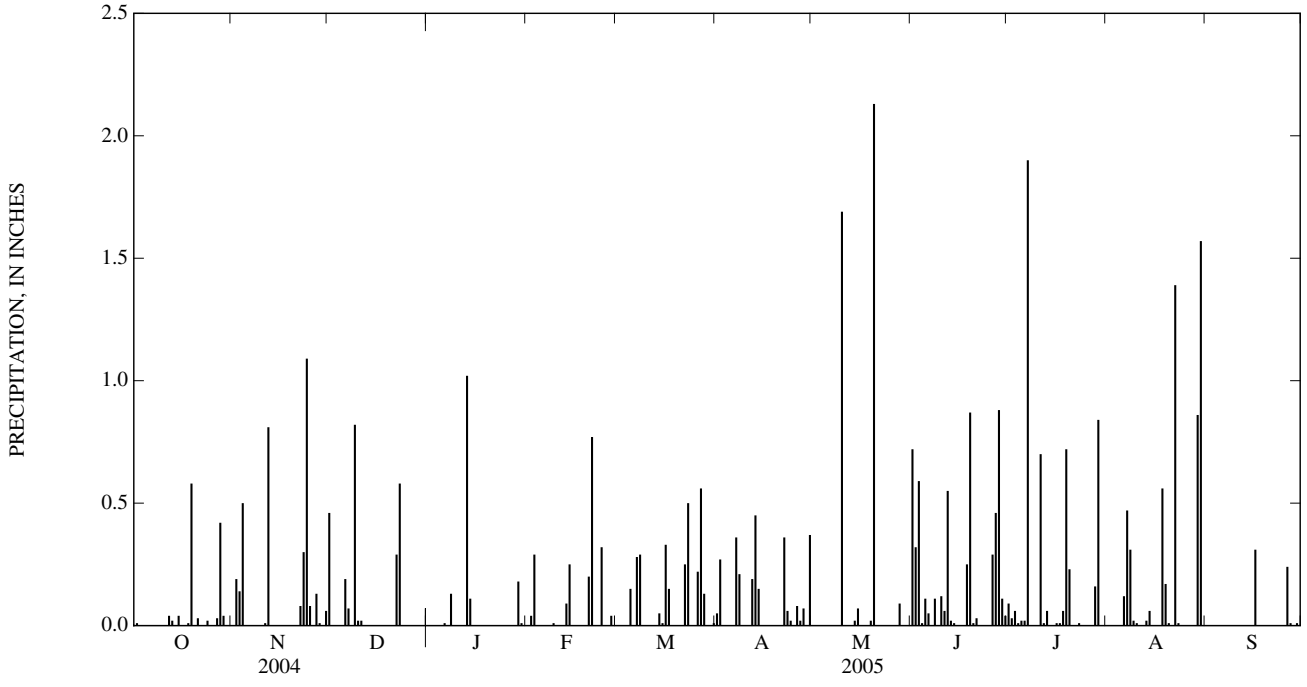
PERIOD OF RECORD.--October 1999 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite and telephone telemetry at station.

REMARKS.--Gage is operated in cooperation with Blue Ridge Paper Products, Inc. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.46	0.00	0.00	0.00	0.05	0.00	0.72	0.09	0.00	0.00
2	0.01	0.19	0.00	0.00	0.04	0.00	0.27	0.00	0.32	0.03	0.00	0.00
3	0.00	0.14	0.00	0.00	0.29	0.00	0.00	0.00	0.59	0.06	0.00	0.00
4	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.11	0.02	0.00	0.00
6	0.00	0.00	0.19	0.01	0.00	0.00	0.00	0.00	0.05	0.02	0.12	0.00
7	0.00	0.00	0.07	0.00	0.00	0.28	0.36	0.00	0.00	1.90	0.47	0.00
8	0.00	0.00	0.00	0.13	0.00	0.29	0.21	0.00	0.11	0.00	0.31	0.00
9	0.00	0.00	0.82	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.00
10	0.00	0.00	0.02	0.00	0.00	0.00	0.00	1.69	0.12	0.00	0.01	0.00
11	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.06	0.70	0.00	0.00
12	0.04	0.81	0.00	0.00	0.00	0.00	0.19	0.00	0.55	0.01	0.00	0.00
13	0.02	0.00	0.00	1.02	0.09	0.00	0.45	0.00	0.02	0.06	0.02	0.00
14	0.00	0.00	0.00	0.11	0.25	0.05	0.15	0.02	0.01	0.00	0.06	0.00
15	0.04	0.00	0.00	0.00	0.00	0.01	0.00	0.07	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.01	0.00	0.31
17	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.01	0.00	0.00
18	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.06	0.56	0.00
19	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.87	0.72	0.17	0.00
20	0.00	0.00	0.00	0.00	0.20	0.00	0.00	2.13	0.01	0.23	0.01	0.00
21	0.03	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.03	0.00	0.00	0.00
22	0.00	0.08	0.29	0.00	0.00	0.25	0.36	0.00	0.00	0.00	1.39	0.00
23	0.00	0.30	0.58	0.00	0.00	0.50	0.06	0.00	0.00	0.01	0.01	0.00
24	0.02	1.09	0.00	0.00	0.32	0.00	0.02	0.00	0.00	0.00	0.00	0.00
25	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.22	0.08	0.00	0.29	0.00	0.00	0.24
27	0.03	0.13	0.00	0.00	0.04	0.56	0.02	0.00	0.46	0.00	0.00	0.01
28	0.42	0.01	0.00	0.00	0.00	0.13	0.07	0.09	0.88	0.16	0.00	0.00
29	0.04	0.00	0.00	0.18	---	0.00	0.00	0.00	0.11	0.84	0.86	0.01
30	0.00	0.06	0.00	0.01	---	0.00	0.37	0.00	0.04	0.00	1.57	0.00
31	0.00	---	0.00	0.00	---	0.01	---	0.00	---	0.00	0.00	---
TOTAL	1.24	3.40	2.45	1.46	2.01	2.93	2.66	4.02	5.61	4.94	5.58	0.57



03456991 PIGEON RIVER NEAR CANTON, NC

LOCATION.--Lat 35°31'23", long 82°50'48", Haywood County, Hydrologic Unit 06010106, on right bank 600 ft upstream from State Highway 215 bridge, 1.3 mi upstream from U.S. Highways 19 and 23 at Canton, and at mile 64.9.

DRAINAGE AREA.--130 mi^2.

PERIOD OF RECORD.--May 1907 to June 1909, October 1928 to current year. Monthly discharge only for some periods published in WSP 1306. Published as Pigeon River at Canton, NC (03457000) May 1907 to June 1909, October 1928 to September 1983.

REVISED RECORDS.--WSP 823: Drainage area. WSP 853: 1929-37(M). WSP 1306: 1903(M). WDR NC-91-1: 1984-89(M).

GAGE.--Water-stage recorder. Datum of gage is 2,581.66 ft above NGVD of 1929 (Tennessee Valley Authority bench mark). Prior to June 1909, nonrecording gage at bridge 1.2 mi downstream at different datum. Dec. 6, 1928, to Jan. 3, 1929, nonrecording gage at site 0.8 mi downstream at different datum. Prior to Oct. 1, 1983, water-stage recorder at site 0.8 mi downstream at different datum. Satellite and telephone telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Occasional diurnal fluctuation and considerable regulation at low flow, since 1932, caused by Lake Logan (station 03455773) on West Fork Pigeon River 11.2 mi upstream. Prior to regulation, maximum discharge: 21,500 ft^3/s, Aug. 16, 1928; gage height: 16.40 ft; minimum discharge: 39 ft^3/s, Sept. 3, 1930. Maximum discharge for period of record from rating curve extended above 20,000 ft^3/s on basis of slope-area measurment of peak flow. Minimum discharge for period of record, at former site, result of freezeup. Minimum discharge for current water year also occurred Sept. 30.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of about 1810 is believed to have been approximately equal to that of Aug. 30, 1940, and flood of June 15, 1876, reached a stage of 18.3 ft; discharge, 25,700 ft^3/s, at former site, from studies by Tennessee Valley Authority.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	916	237	629	368	241	309	466	399	257	545	351	567
2	692	235	499	352	238	274	669	378	783	527	313	461
3	682	291	458	340	360	276	507	336	552	436	276	405
4	611	851	428	329	295	269	470	199	476	420	287	363
5	556	498	404	317	e260	293	438	194	411	388	239	334
6	510	379	441	308	e256	281	404	194	420	364	261	309
7	474	341	564	290	e252	278	416	203	402	1,610	286	290
8	443	315	485	311	e256	649	622	236	475	978	413	272
9	423	296	703	285	e265	424	505	230	473	781	352	256
10	409	281	734	401	261	388	452	315	408	831	316	242
11	392	272	588	477	233	364	425	345	482	692	282	233
12	376	644	524	287	e226	342	411	265	2,430	1,480	254	222
13	401	474	482	272	232	330	499	289	3,100	896	242	213
14	359	392	446	813	278	349	537	253	1,290	737	280	204
15	342	364	469	528	282	317	476	270	906	650	232	195
16	315	341	394	470	e252	349	459	262	717	575	217	208
17	303	323	394	474	e238	356	441	237	606	513	224	214
18	302	311	307	539	e221	317	425	228	556	466	248	185
19	334	300	350	484	e217	308	410	226	614	555	235	176
20	314	288	e342	296	229	295	395	693	568	609	204	171
21	291	276	425	287	e410	284	281	480	490	537	210	168
22	278	268	452	276	421	286	259	387	435	470	236	164
23	268	319	1,270	e270	e320	542	324	344	397	e520	280	160
24	264	1,010	770	267	e345	411	334	310	367	e390	203	154
25	254	850	596	e280	339	375	312	291	341	e360	186	151
26	244	581	525	272	308	357	305	277	348	e340	179	169
27	240	507	474	237	296	371	315	261	467	328	172	188
28	238	556	442	191	339	1,550	289	255	443	319	264	153
29	311	468	436	200	---	761	297	244	507	524	495	152
30	253	432	438	217	---	583	353	232	411	401	1,810	150
31	235	---	330	205	---	483	---	219	---	350	935	---
TOTAL	12,030	12,700	15,799	10,643	7,870	12,771	12,496	9,052	20,132	18,592	10,482	7,129
MEAN	388	423	510	343	281	412	417	292	671	600	338	238
MAX	916	1,010	1,270	813	421	1,550	669	693	3,100	1,610	1,810	567
MIN	235	235	307	191	217	269	259	194	257	319	172	150

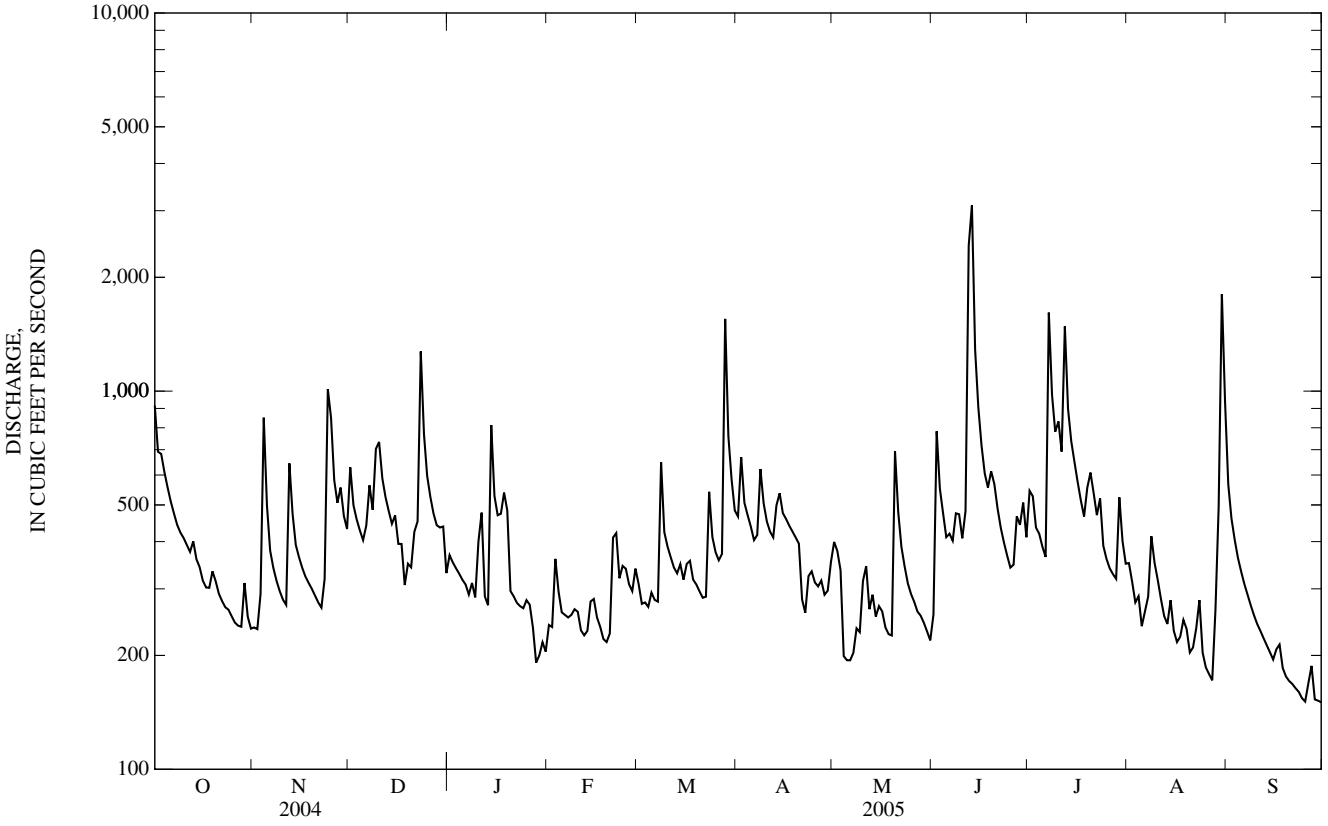
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2005*, BY WATER YEAR (WY)

MEAN	222	267	325	417	472	528	463	338	266	198	201	221
MAX	787	964	872	1,017	1,150	1,058	1,005	981	781	600	1,476	2,504
(WY)	(1965)	(1980)	(1933)	(1937)	(1939)	(1975)	(1983)	(1976)	(1967)	(2005)	(1940)	(2004)
MIN	48.2	59.2	64.5	85.3	150	155	167	132	96.5	88.6	65.9	47.8
(WY)	(1955)	(1955)	(1940)	(1956)	(1941)	(1988)	(1986)	(1941)	(1941)	(2002)	(1954)	(1998)

03456991 PIGEON RIVER NEAR CANTON, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1932 - 2005*	
ANNUAL TOTAL	184,232		149,696			
ANNUAL MEAN	503		410		326	
HIGHEST ANNUAL MEAN					503	1949
LOWEST ANNUAL MEAN					170	1988
HIGHEST DAILY MEAN	19,800	Sep 8	3,100	Jun 13	19,800	Sep 8, 2004
LOWEST DAILY MEAN	130	Jul 21	150	Sep 30	27	Sep 7, 1954
ANNUAL SEVEN-DAY MINIMUM	144	Jul 18	160	Sep 24	40	Sep 13, 1998
MAXIMUM PEAK FLOW			6,500	Jun 12	48,000*	Sep 17, 2004
MAXIMUM PEAK STAGE			7.80	Jun 12	22.80	Sep 17, 2004
INSTANTANEOUS LOW FLOW			141*	Sep 26	15*	Jan 8, 1956
10 PERCENT EXCEEDS	632		617		605	
50 PERCENT EXCEEDS	291		342		232	
90 PERCENT EXCEEDS	170		222		87	

* Regulated period only (1932-2005). See REMARKS.
e Estimated.



03459500 PIGEON RIVER NEAR HEPCO, NC

LOCATION.--Lat 35°38'06", long 82°59'24", Haywood County, Hydrologic Unit 06010106, on left bank 95 ft east of Interstate Highway 40, 0.8 mi downstream of Jonathan Creek, 2.0 mi south of Hepco, 2.4 mi upstream from Fines Creek, and at mile 45.1.

DRAINAGE AREA.--350 mi^2.

PERIOD OF RECORD.--July 1927 to current year.

REVISED RECORDS.--WSP 823: Drainage area. WSP 893: 1928-31, 1932(M), 1933-36, 1937-39(M).

GAGE.--Water-stage recorder. Datum of gage is 2,335.95 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Satellite and telephone telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Regulation by Lake Junaluska (station 03458319) on Richland Creek and Lake Logan (station 03455773) on West Fork Pigeon River for periods at low flow, combined capacity of reservoirs, about 2,000 ft^3/s-day. Maximum discharge for period of record, from rating curve extended above 12,000 ft^3/s on basis of slope-conveyance measurement of peak flow. Minimum discharge for current water year also occurred Sept. 26.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of June 1876 and February 1902 reached a stage of about 18 ft, from flood profiles by Tennessee Valley Authority; discharge, about 42,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,890	596	1,530	927	564	857	1,050	909	654	936	739	1,150
2	1,480	601	1,220	901	569	746	1,510	843	1,350	1,030	678	913
3	1,410	761	1,100	885	710	727	1,260	808	1,070	927	591	784
4	1,280	1,690	1,020	862	714	708	1,130	662	979	927	594	699
5	1,170	1,360	950	808	650	729	1,050	621	838	809	561	647
6	1,090	982	1,000	805	633	705	981	616	893	748	564	612
7	1,020	872	1,260	726	622	687	951	594	901	3,020	613	574
8	962	805	1,150	743	617	1,420	1,160	627	889	2,310	829	540
9	921	737	1,720	691	624	1,120	1,040	617	964	1,470	750	516
10	895	702	1,940	712	630	1,060	909	737	849	1,510	693	496
11	860	682	1,560	977	591	999	860	879	929	1,230	616	484
12	830	1,470	1,330	727	570	900	834	677	2,080	2,080	565	459
13	883	1,280	1,210	699	571	820	1,080	677	4,790	1,590	562	443
14	812	993	1,110	1,540	645	828	1,360	682	2,230	1,320	677	439
15	776	872	1,070	1,120	671	777	1,210	714	1,570	1,140	560	407
16	731	813	974	993	616	828	1,120	691	1,270	1,070	540	438
17	697	804	983	938	598	927	1,050	633	1,100	988	548	453
18	696	774	847	1,020	571	835	999	608	1,040	898	1,080	398
19	943	745	852	993	558	783	959	578	1,110	1,080	808	377
20	833	714	821	719	577	760	921	2,110	1,250	1,380	603	368
21	724	688	855	674	1,040	742	822	1,360	1,020	1,150	543	361
22	689	660	999	662	1,080	766	800	1,010	904	1,010	492	354
23	659	796	1,880	647	850	1,180	943	889	826	1,090	705	352
24	653	2,220	1,510	662	905	993	911	807	760	845	536	346
25	635	2,470	1,190	874	901	899	824	752	710	771	491	346
26	618	1,560	1,070	857	842	850	803	712	686	715	466	384
27	609	1,280	978	742	817	893	832	675	864	667	445	438
28	605	1,300	921	545	911	2,340	776	665	957	639	446	375
29	867	1,110	906	548	---	1,590	778	645	1,050	914	816	371
30	665	1,020	1,000	589	---	1,300	829	616	902	936	2,500	375
31	605	---	878	537	---	1,090	---	591	---	737	2,060	---
TOTAL	27,508	31,357	35,834	25,123	19,647	29,859	29,752	24,005	35,435	35,937	22,671	14,899
MEAN	887	1,045	1,156	810	702	963	992	774	1,181	1,159	731	497
MAX	1,890	2,470	1,940	1,540	1,080	2,340	1,510	2,110	4,790	3,020	2,500	1,150
MIN	605	596	821	537	558	687	776	578	654	639	445	346

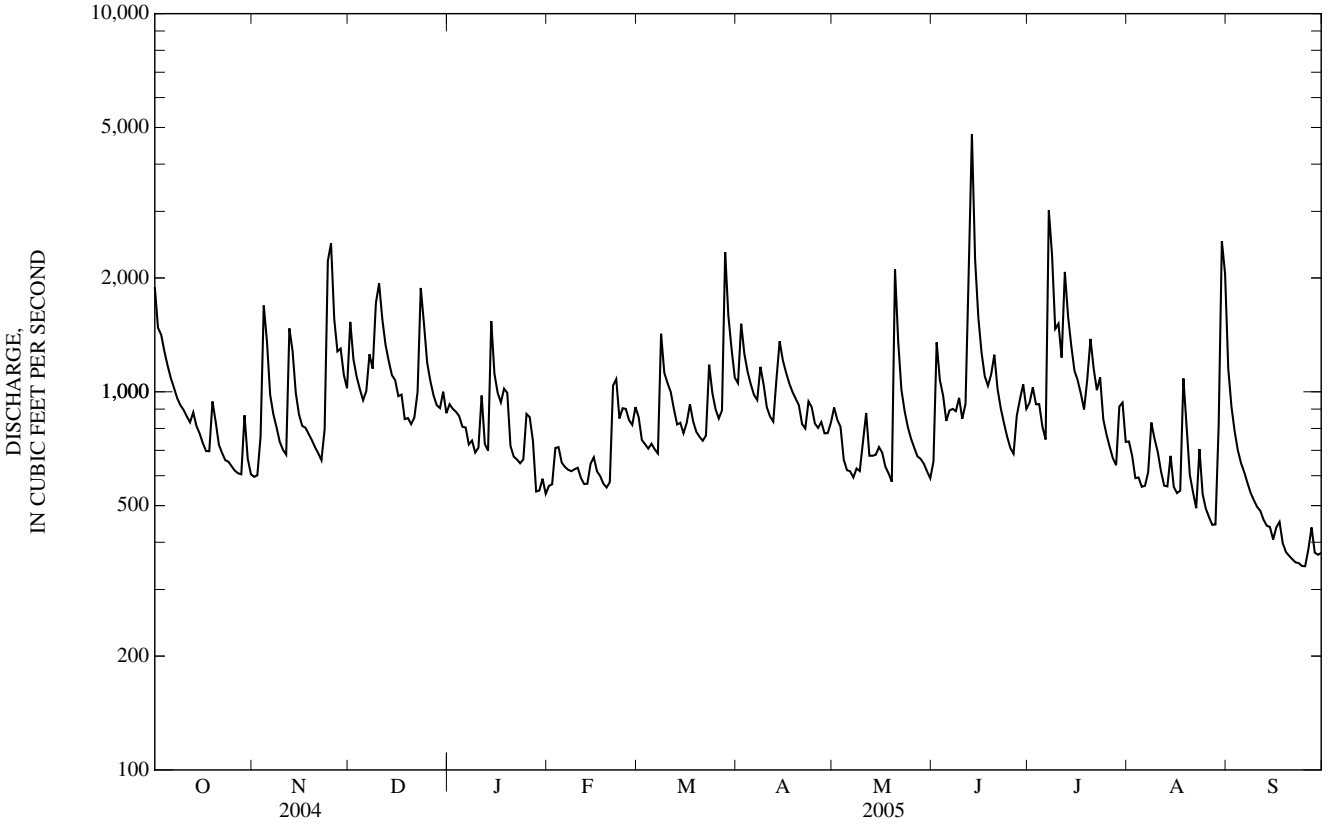
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 2005, BY WATER YEAR (WY)

MEAN	417	509	673	871	1,018	1,137	983	732	546	434	426	419
MAX	1,353	1,627	2,125	2,275	2,227	2,455	2,010	1,798	1,502	1,159	2,246	3,636
(WY)	(1965)	(1980)	(1933)	(1937)	(1990)	(1929)	(1936)	(2003)	(1967)	(2005)	(1940)	(2004)
MIN	122	133	193	194	319	346	359	283	200	183	163	123
(WY)	(1955)	(1954)	(1940)	(1940)	(1941)	(1988)	(1986)	(1941)	(1988)	(1986)	(1953)	(1999)

03459500 PIGEON RIVER NEAR HEPCO, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1927 - 2005	
ANNUAL TOTAL	351,850		332,027			
ANNUAL MEAN	961		910		679	
HIGHEST ANNUAL MEAN					943	1949
LOWEST ANNUAL MEAN					341	1988
HIGHEST DAILY MEAN	23,900	Sep 8	4,790	Jun 13	23,900	Sep 8, 2004
LOWEST DAILY MEAN	308	Jul 22	346	Sep 24	95	Sep 30, 1941
ANNUAL SEVEN-DAY MINIMUM	351	Jul 18	358	Sep 19	100	Sep 12, 1999
MAXIMUM PEAK FLOW			7,360	Jun 13	36,500*	Sep 17, 2004
MAXIMUM PEAK STAGE			7.75	Jun 13	17.31	Sep 17, 2004
INSTANTANEOUS LOW FLOW			338*	Sep 25	81	Sep 30, 1941
10 PERCENT EXCEEDS	1,470		1,350		1,250	
50 PERCENT EXCEEDS	646		829		509	
90 PERCENT EXCEEDS	392		559		207	

* See REMARKS.



03460000 CATALOOCHEE CREEK NEAR CATALOOCHEE, NC

LOCATION.--Lat 35°40'03", long 83°04'25", Haywood County, Hydrologic Unit 06010106, in Great Smoky Mountains National Park, on left bank 20 ft downstream of bridge on State Highway 284, 500 ft upstream from Little Cataloochee Creek, 2 mi north of Cataloochee, and 3.7 mi upstream from mouth.

DRAINAGE AREA.--49.2 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1933 to September 1952, October 1962 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 823: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 2,456.88 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred Jan. 2, 1940, and Dec. 17, 24, 1943, result of freezeup. Minimum discharge for current water year also occurred Sept. 26.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	167	66	343	103	e93	135	136	131	96	82	95	92
2	152	66	268	100	e91	123	221	126	132	76	87	82
3	141	89	229	98	e109	117	187	121	94	80	79	75
4	130	238	199	96	e93	113	187	115	90	76	77	69
5	120	161	175	93	e91	118	187	113	89	76	78	65
6	111	129	192	100	e91	109	179	109	97	73	73	62
7	105	114	226	93	e90	114	173	103	93	311	79	60
8	100	105	207	131	e91	342	162	99	99	189	92	57
9	96	97	355	105	e91	242	148	96	92	139	81	55
10	93	93	443	99	e91	203	136	113	94	119	75	e53
11	90	90	390	99	e88	180	127	102	91	117	68	e51
12	87	153	322	96	e87	163	128	100	130	105	65	e49
13	92	129	268	123	e92	151	175	98	191	105	67	48
14	84	117	225	212	e131	154	229	94	137	98	70	47
15	82	112	196	156	e146	138	191	103	120	95	63	46
16	77	108	178	145	e144	145	171	94	109	99	73	54
17	75	103	164	132	e135	142	157	90	102	99	79	49
18	73	99	152	e123	e130	131	146	87	100	97	137	45
19	115	95	144	e112	e128	126	137	85	95	114	113	43
20	84	93	136	107	e140	121	128	203	108	176	92	43
21	77	88	133	e104	e340	116	122	138	94	147	81	42
22	73	85	122	e100	e299	120	125	122	87	130	74	41
23	71	120	181	e99	e199	161	141	114	88	112	69	40
24	74	415	139	e154	e189	135	123	108	80	101	65	40
25	69	477	131	e101	161	131	115	102	76	93	62	39
26	67	324	127	e97	146	127	117	97	77	87	61	52
27	71	252	120	e96	137	127	120	93	82	81	60	48
28	67	219	116	e92	152	191	115	93	88	85	65	41
29	86	183	113	e98	---	158	126	88	93	100	68	48
30	72	170	111	e100	---	150	137	85	82	80	161	42
31	68	---	107	e95	---	143	---	82	---	114	116	---
TOTAL	2,869	4,590	6,212	3,459	3,775	4,626	4,546	3,304	3,006	3,456	2,525	1,578
MEAN	92.5	153	200	112	135	149	152	107	100	111	81.5	52.6
MAX	167	477	443	212	340	342	229	203	191	311	161	92
MIN	67	66	107	92	87	109	115	82	76	73	60	39
CFSM	1.88	3.11	4.07	2.27	2.74	3.03	3.08	2.17	2.04	2.27	1.66	1.07
IN.	2.17	3.47	4.70	2.62	2.85	3.50	3.44	2.50	2.27	2.61	1.91	1.19

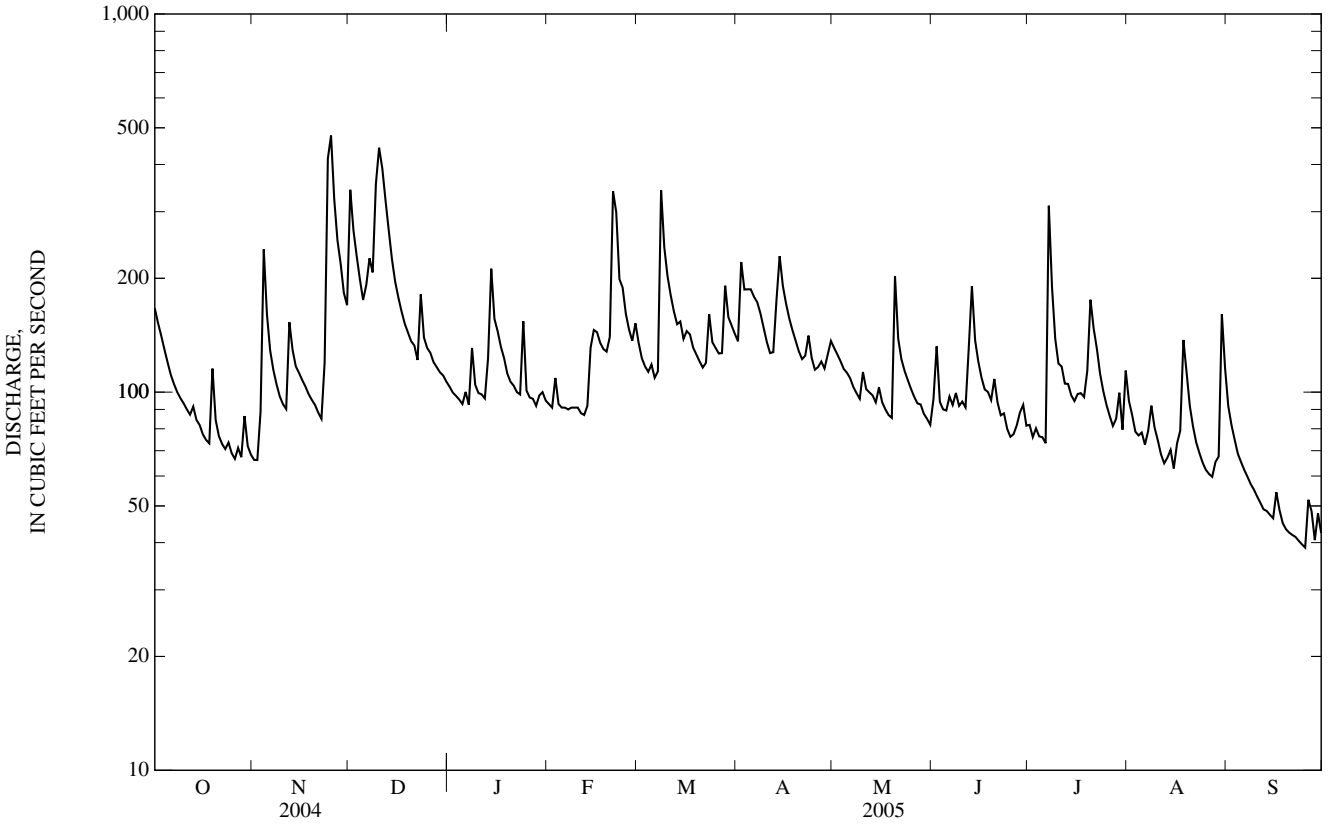
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2005,@ BY WATER YEAR (WY)

MEAN	53.5	72.3	113	162	178	201	156	114	85.0	74.9	71.6	58.2
MAX	146	159	302	392	394	496	305	289	252	182	223	361
(WY)	(1990)	(1980)	(1973)	(1937)	(1990)	(1963)	(1936)	(2003)	(1967)	(1949)	(1940)	(2004)
MIN	21.3	22.3	26.0	35.5	49.5	63.2	58.8	46.2	34.7	29.6	26.9	23.5
(WY)	(1999)	(1940)	(1940)	(1940)	(1941)	(1988)	(1986)	(1986)	(1986)	(1986)	(1987)	(1998)

03460000 CATALOOCHEE CREEK NEAR CATALOOCHEE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1934 - 2005[@]	
ANNUAL TOTAL	52,400		43,946			
ANNUAL MEAN	143		120		112	
HIGHEST ANNUAL MEAN					171	1994
LOWEST ANNUAL MEAN					51.5	1986
HIGHEST DAILY MEAN	1,900	Sep 17	477	Nov 25	2,690	Mar 16, 1973
LOWEST DAILY MEAN	55	Jul 23	39	Sep 25	12	Jan 2, 1940
ANNUAL SEVEN-DAY MINIMUM	61	Jul 19	41	Sep 19	18	Oct 21, 1998
MAXIMUM PEAK FLOW			734	Nov 24	5,080	Mar 6, 1963
MAXIMUM PEAK STAGE			4.16	Nov 24	8.08	Mar 6, 1963
INSTANTANEOUS LOW FLOW			37*	Sep 25	9.4*	Jan 2, 1940
ANNUAL RUNOFF (CFSM)	2.91		2.45		2.27	
ANNUAL RUNOFF (INCHES)	39.62		33.23		30.80	
10 PERCENT EXCEEDS	227		188		204	
50 PERCENT EXCEEDS	106		103		82	
90 PERCENT EXCEEDS	72		67		34	

[@] See PERIOD OF RECORD.
* See REMARKS.
e Estimated.



03460795 PIGEON RIVER BELOW POWER PLANT NEAR WATERVILLE, NC

LOCATION.--Lat 35°47'01", long 83°06'43", Cocke County Tennessee, Hydrologic Unit 06010105, on left bank, 550 ft upstream of Browns Bridge on Waterville Road, 0.9 mi downstream of North Carolina and Tennessee state lines, 1.0 mi northwest of Waterville, and at mile 25.

DRAINAGE AREA.--538 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1997 to current year.

REVISED RECORDS.--WDR NC-04-1: 1997(M), 1998(M), 2003(M).

GAGE.--Water-stage recorder. Elevation of gage is 1,360 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Considerable regulation, caused by Walters Hydroelectric Plant, 1.0 mi upstream. Maximum discharge for period of record from rating curve extended above 11,000 ft^3/s on basis of slope-conveyance measurement of peak flow. Minimum discharge for period of record and current water year affected by regulation.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,590	1,220	2,170	938	937	1,730	2,840	1,550	1,270	1,410	1,110	1,830
2	2,330	1,090	2,460	766	774	1,910	3,250	1,430	2,100	1,350	1,500	1,450
3	2,230	1,510	2,540	1,650	961	1,580	2,200	1,420	1,530	1,380	1,370	1,050
4	2,090	1,670	1,630	1,780	1,550	1,480	2,090	1,360	1,590	1,650	1,420	378
5	1,900	1,550	1,720	2,210	736	851	2,300	1,260	1,550	1,460	1,170	1,070
6	1,820	856	2,350	1,780	532	1,160	2,360	1,560	1,220	1,760	1,270	865
7	1,620	1,010	1,830	1,800	628	1,430	1,970	764	1,480	3,510	665	1,040
8	1,320	1,430	1,690	781	702	2,270	1,890	535	1,330	3,910	1,210	871
9	1,370	1,460	3,230	496	556	2,280	1,190	1,370	1,660	2,980	1,320	908
10	1,330	1,510	3,550	950	1,420	2,020	1,500	1,620	1,200	2,440	1,270	887
11	1,180	1,190	3,450	1,120	1,730	1,860	1,980	1,250	1,760	2,730	1,180	257
12	1,410	1,510	3,190	1,780	1,150	1,950	1,910	858	1,620	1,890	893	1,010
13	1,750	2,070	2,750	1,590	683	1,400	1,960	863	5,460	2,120	917	1,000
14	1,110	1,220	2,350	2,760	1,130	1,910	2,700	1,800	3,230	2,130	645	786
15	1,770	1,190	1,530	1,610	1,140	1,980	2,760	715	2,570	1,790	595	872
16	1,560	1,460	2,210	1,070	1,190	1,780	2,280	1,340	1,970	1,560	952	1,060
17	1,820	1,440	1,950	1,660	1,740	2,010	1,400	1,300	1,850	1,740	953	623
18	1,750	1,330	1,850	1,830	1,440	1,900	1,920	1,320	1,450	1,670	1,240	518
19	1,310	1,130	983	1,810	583	989	1,900	1,090	1,460	1,810	1,400	530
20	1,200	1,090	1,590	1,420	606	555	1,860	2,370	e1,660	2,190	1,280	737
21	1,080	595	2,030	1,720	2,250	1,380	2,200	2,800	e1,750	1,850	1,400	347
22	1,030	1,520	1,990	1,710	2,350	1,560	2,110	2,270	1,550	1,760	948	566
23	308	1,560	2,540	1,400	2,060	1,600	547	1,720	1,650	1,690	1,300	612
24	275	2,420	2,380	1,350	1,900	2,120	631	1,430	1,250	1,430	1,320	332
25	775	4,380	1,910	1,150	2,090	2,110	1,340	825	1,310	1,470	988	330
26	1,240	3,250	1,630	1,440	1,590	2,040	2,360	1,530	449	1,360	820	319
27	1,450	2,850	2,080	1,470	1,620	1,320	1,940	1,380	1,330	1,680	832	749
28	1,500	2,330	1,720	1,370	2,030	2,810	2,080	851	2,180	1,440	892	751
29	1,510	2,330	1,710	1,100	---	2,450	1,520	763	1,550	1,350	1,700	797
30	1,620	2,130	1,620	681	---	2,310	1,270	618	1,290	1,230	2,040	551
31	1,060	---	1,490	1,320	---	2,250	---	1,160	---	915	2,700	---
TOTAL	45,308	50,301	66,123	44,512	36,078	54,995	58,258	41,122	52,269	57,655	37,300	23,096
MEAN	1,462	1,677	2,133	1,436	1,288	1,774	1,942	1,327	1,742	1,860	1,203	770
MAX	2,590	4,380	3,550	2,760	2,350	2,810	3,250	2,800	5,460	3,910	2,700	1,830
MIN	275	595	983	496	532	555	547	535	449	915	595	257

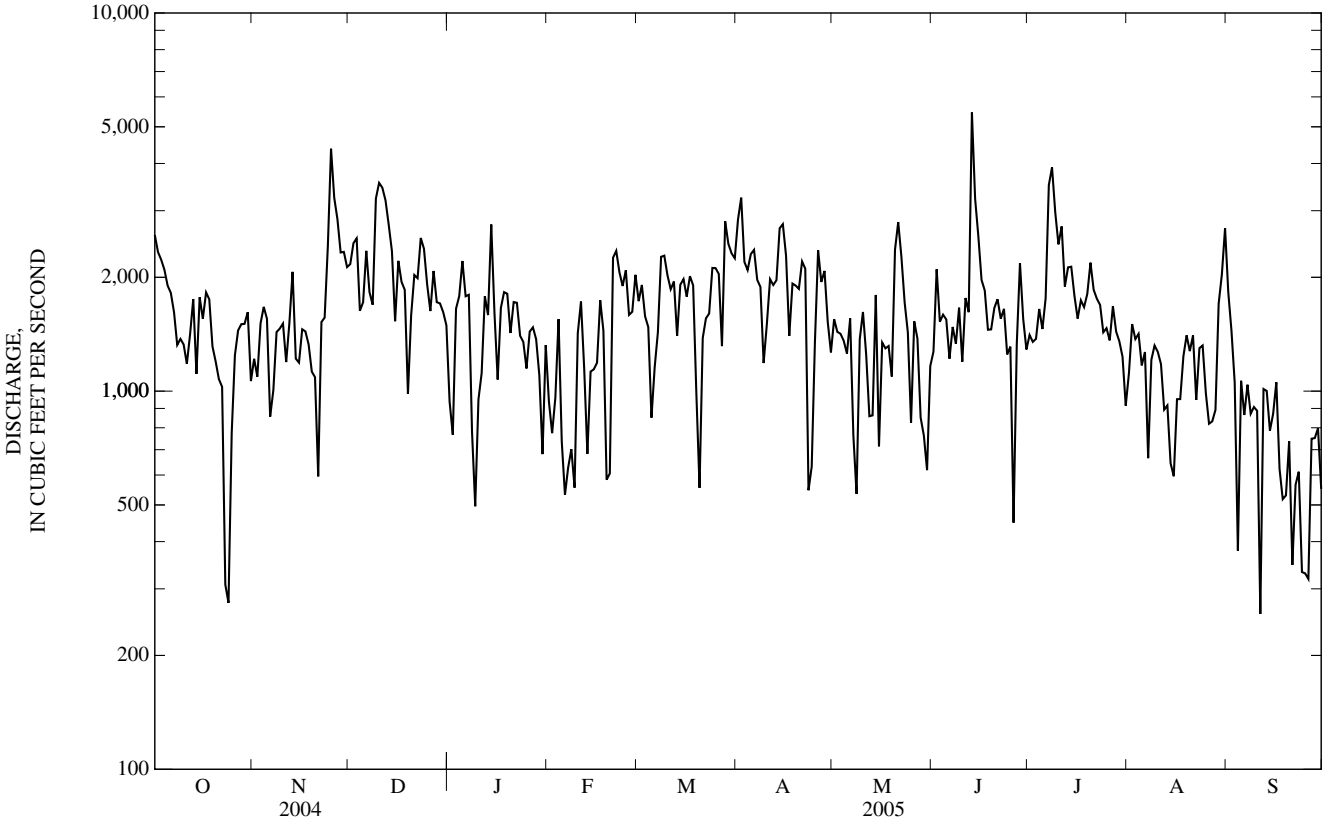
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2005, BY WATER YEAR (WY)

MEAN	512	784	1,010	1,228	1,543	1,705	1,594	1,304	953	910	611	887
MAX	1,462	1,677	2,133	2,187	3,096	3,505	2,540	2,835	1,742	1,860	1,203	4,517
(WY)	(2005)	(2005)	(2005)	(1998)	(1998)	(1997)	(1998)	(2003)	(2005)	(2005)	(2005)	(2004)
MIN	153	286	554	810	794	1,063	961	676	471	409	293	176
(WY)	(1999)	(2002)	(2002)	(2000)	(2002)	(2002)	(2002)	(2001)	(2002)	(2002)	(2002)	(1999)

03460795 PIGEON RIVER BELOW POWER PLANT NEAR WATERVILLE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1997 - 2005	
ANNUAL TOTAL	564,472		567,017			
ANNUAL MEAN	1,542		1,553		1,060	
HIGHEST ANNUAL MEAN					1,553	2005
LOWEST ANNUAL MEAN					644	2002
HIGHEST DAILY MEAN	22,500	Sep 8	5,460	Jun 13	22,500	Sep 8, 2004
LOWEST DAILY MEAN	177	Jul 11	257	Sep 11	74	Nov 19, 2000
ANNUAL SEVEN-DAY MINIMUM	556	Aug 21	463	Sep 20	117	Oct 2, 1998
MAXIMUM PEAK FLOW			10,900	Jun 13	39,000*	Sep 17, 2004
MAXIMUM PEAK STAGE			11.24	Jun 13	18.88	Sep 17, 2004
INSTANTANEOUS LOW FLOW			178*	Jul 27	24*	Jun 23, 2002
10 PERCENT EXCEEDS	2,480		2,350		2,090	
50 PERCENT EXCEEDS	1,240		1,490		844	
90 PERCENT EXCEEDS	581		744		189	

* See REMARKS.
e Estimated.



03460795 PIGEON RIVER BELOW POWER PLANT NEAR WATERVILLE, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1997 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Water years 1997 to current year.
DISSOLVED OXYGEN: Water years 1997 to current year.

INSTRUMENTATION.--Water-quality monitor since May 1997.

REMARKS.--Interruptions in the data are due to malfunctions of the monitor. Data were collected during the current year for the months of October 2004, May through September 2005.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
WATER TEMPERATURE, °C	24.9, August 14, 2002	6.8, June 2, 2001
DISSOLVED OXYGEN, mg/L	12.4, September 17, 2004	3.1, November 1, 1998

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
WATER TEMPERATURE, °C	23.3, August 24	14.1, May 13, 14
DISSOLVED OXYGEN, mg/L	11.5, May 29	6.0, August 28

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	16.2	16.0	16.1	---	---	---	---	---	---	---	---	---
2	16.6	16.0	16.2	---	---	---	---	---	---	---	---	---
3	16.4	16.1	16.3	---	---	---	---	---	---	---	---	---
4	16.2	15.9	16.1	---	---	---	---	---	---	---	---	---
5	16.1	15.9	16.0	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

03460795 PIGEON RIVER BELOW POWER PLANT NEAR WATERVILLE, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	15.0	14.1	14.5
14	---	---	---	---	---	---	---	---	---	15.7	14.1	15.1
15	---	---	---	---	---	---	---	---	---	15.8	14.8	15.3
16	---	---	---	---	---	---	---	---	---	16.1	14.9	15.6
17	---	---	---	---	---	---	---	---	---	16.6	15.1	15.9
18	---	---	---	---	---	---	---	---	---	16.9	15.6	16.4
19	---	---	---	---	---	---	---	---	---	17.0	16.1	16.7
20	---	---	---	---	---	---	---	---	---	17.0	16.3	16.8
21	---	---	---	---	---	---	---	---	---	17.1	16.5	16.9
22	---	---	---	---	---	---	---	---	---	17.2	16.1	16.8
23	---	---	---	---	---	---	---	---	---	17.3	16.3	16.9
24	---	---	---	---	---	---	---	---	---	17.4	16.4	16.9
25	---	---	---	---	---	---	---	---	---	17.0	15.1	16.0
26	---	---	---	---	---	---	---	---	---	17.0	15.2	16.4
27	---	---	---	---	---	---	---	---	---	17.0	15.5	16.4
28	---	---	---	---	---	---	---	---	---	16.9	15.9	16.4
29	---	---	---	---	---	---	---	---	---	16.6	15.5	16.0
30	---	---	---	---	---	---	---	---	---	17.0	15.7	16.3
31	---	---	---	---	---	---	---	---	---	16.8	16.1	16.5
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
		JUNE			JULY			AUGUST			SEPTEMBER	
1	16.9	16.3	16.6	20.7	19.8	20.3	22.6	21.4	22.1	21.4	20.6	21.1
2	17.2	16.2	16.8	20.9	20.0	20.5	22.4	20.9	21.8	21.2	20.6	21.0
3	17.1	16.3	16.7	20.9	20.2	20.7	22.5	21.4	22.1	21.2	20.5	20.9
4	17.0	16.2	16.7	21.1	20.4	20.8	22.7	21.8	22.3	21.3	20.1	20.7
5	17.1	16.6	16.9	21.1	20.2	20.7	22.8	21.9	22.4	20.9	20.0	20.5
6	19.0	16.8	17.6	21.1	20.5	20.8	22.8	21.7	22.4	20.8	20.1	20.6
7	17.8	16.9	17.4	20.9	18.3	19.5	22.6	22.0	22.2	20.9	20.0	20.5
8	17.9	17.0	17.6	19.3	18.5	18.8	22.5	21.6	22.1	20.8	20.0	20.5
9	18.7	17.4	18.1	18.9	18.3	18.6	22.3	21.3	21.8	20.7	19.9	20.4
10	19.1	17.7	18.5	19.4	18.6	19.0	22.4	21.3	21.9	20.9	19.9	20.4
11	19.5	18.1	19.0	19.8	19.3	19.6	22.5	21.3	22.0	21.1	20.0	20.5
12	19.9	18.8	19.5	19.9	19.3	19.6	22.5	21.5	22.0	20.9	19.8	20.3
13	20.9	18.3	19.8	19.9	19.4	19.6	22.9	21.8	22.3	20.8	20.1	20.5
14	19.4	18.0	18.4	19.8	19.4	19.6	23.0	21.6	22.2	20.9	20.0	20.5
15	18.5	18.2	18.3	19.9	19.3	19.7	22.8	21.7	22.2	21.0	20.2	20.6
16	18.7	18.1	18.5	20.0	19.5	19.8	22.9	21.9	22.4	21.0	20.4	20.7
17	19.0	18.2	18.8	20.4	19.6	20.0	22.9	22.2	22.6	21.5	20.5	20.8
18	19.1	18.2	18.7	20.2	17.9	19.8	22.7	21.7	22.4	21.2	20.1	20.6
19	19.3	18.4	18.8	19.9	17.8	19.1	22.5	20.8	21.8	21.4	20.1	20.7
20	18.6	18.0	18.3	20.5	19.4	20.0	22.6	21.6	22.2	21.2	20.4	20.8
21	18.4	16.5	17.9	20.9	19.8	20.4	23.0	22.1	22.6	21.4	20.4	20.9
22	18.3	17.1	17.8	21.2	20.2	20.8	22.9	22.2	22.6	21.5	20.5	20.9
23	18.6	17.6	18.2	21.6	20.3	21.1	23.1	22.2	22.7	21.2	20.6	21.0
24	18.8	17.9	18.4	21.9	20.5	21.3	23.3	22.2	22.9	21.4	20.6	21.0
25	19.0	18.1	18.6	22.2	20.9	21.6	23.1	22.6	22.9	21.4	20.8	21.0
26	19.4	18.5	19.0	22.2	21.3	21.8	23.0	22.1	22.6	21.1	20.8	21.0
27	19.4	18.5	18.9	22.5	21.7	22.2	22.9	22.2	22.6	21.4	20.7	21.0
28	19.7	19.0	19.4	22.6	21.8	22.3	22.9	22.0	22.5	21.4	20.6	21.1
29	20.3	19.0	19.6	22.7	21.9	22.4	23.1	22.3	22.8	21.3	20.9	21.1
30	20.4	19.3	19.9	22.7	21.8	22.3	23.0	22.0	22.6	21.4	20.3	20.9
31	---	---	---	22.7	21.9	22.2	22.2	21.3	21.8	---	---	---
MONTH	20.9	16.2	18.3	22.7	17.8	20.5	23.3	20.8	22.3	21.5	19.8	20.8

03460795 PIGEON RIVER BELOW POWER PLANT NEAR WATERVILLE, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	9.2	9.0	9.1	---	---	---	---	---	---	---	---	---
2	9.2	8.8	9.1	---	---	---	---	---	---	---	---	---
3	9.4	9.0	9.2	---	---	---	---	---	---	---	---	---
4	9.0	8.7	8.9	---	---	---	---	---	---	---	---	---
5	9.0	8.7	8.8	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	9.6	8.2	8.8
18	---	---	---	---	---	---	---	---	---	10.3	8.4	9.4
19	---	---	---	---	---	---	---	---	---	10.6	8.9	9.8
20	---	---	---	---	---	---	---	---	---	9.8	8.4	9.1
21	---	---	---	---	---	---	---	---	---	10.1	8.5	9.3
22	---	---	---	---	---	---	---	---	---	10.4	9.0	9.8
23	---	---	---	---	---	---	---	---	---	10.3	9.0	9.7
24	---	---	---	---	---	---	---	---	---	10.6	9.0	9.9
25	---	---	---	---	---	---	---	---	---	11.2	9.5	10.4
26	---	---	---	---	---	---	---	---	---	10.9	9.5	10.2
27	---	---	---	---	---	---	---	---	---	11.2	9.3	10.2
28	---	---	---	---	---	---	---	---	---	11.0	9.3	10.2
29	---	---	---	---	---	---	---	---	---	11.5	9.5	10.6
30	---	---	---	---	---	---	---	---	---	11.4	9.6	10.6
31	---	---	---	---	---	---	---	---	---	9.7	8.6	9.1
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

03460795 PIGEON RIVER BELOW POWER PLANT NEAR WATERVILLE, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.3	8.6	8.9	7.8	7.1	7.4	8.2	7.5	7.9	7.8	7.3	7.5
2	9.3	8.4	8.8	8.0	7.1	7.4	8.1	7.1	7.7	8.0	7.3	7.5
3	9.5	8.3	8.7	7.9	7.0	7.4	8.1	7.1	7.5	8.0	7.4	7.6
4	8.9	8.3	8.6	8.2	7.1	7.4	7.8	6.8	7.3	8.1	7.4	7.7
5	9.0	8.3	8.5	8.0	7.1	7.5	7.9	6.8	7.2	8.3	7.5	7.7
6	9.1	8.2	8.6	7.8	7.2	7.4	8.2	6.8	7.2	8.4	7.5	7.8
7	9.3	8.3	8.6	8.8	7.2	8.0	7.9	6.8	7.4	8.3	7.5	7.8
8	9.9	8.4	8.8	8.4	8.1	8.3	7.7	6.9	7.3	8.5	7.5	7.9
9	10.0	8.5	8.8	8.2	8.0	8.1	8.1	7.3	7.6	8.5	7.6	7.9
10	9.3	8.5	8.8	8.4	8.1	8.2	7.9	7.2	7.5	8.7	7.5	7.9
11	8.9	8.3	8.6	8.3	8.1	8.2	8.0	6.9	7.4	8.9	7.8	8.2
12	8.8	8.1	8.4	8.5	8.1	8.3	8.4	6.5	7.5	8.6	6.9	7.8
13	9.0	8.1	8.6	8.5	8.1	8.3	---	---	---	7.5	7.0	7.2
14	9.1	8.2	8.8	8.6	8.2	8.4	8.6	6.9	7.5	8.2	7.1	7.5
15	8.7	8.2	8.4	9.3	8.2	8.5	---	---	---	8.2	7.1	7.4
16	8.4	8.1	8.2	9.0	8.3	8.6	---	---	---	8.0	7.0	7.4
17	8.4	8.1	8.2	8.9	8.1	8.5	---	---	---	8.3	7.3	7.7
18	8.6	8.0	8.2	---	---	---	7.8	7.0	7.2	8.5	7.3	7.8
19	8.8	8.0	8.3	---	---	---	8.6	6.6	7.4	8.7	7.3	7.7
20	8.7	8.0	8.3	---	---	---	7.7	6.7	7.2	8.3	6.9	7.5
21	9.2	8.3	8.6	---	---	---	7.2	6.6	6.9	8.2	7.0	7.6
22	9.1	8.2	8.5	8.7	8.1	8.4	7.3	6.7	7.0	8.6	6.9	7.4
23	9.0	8.1	8.4	8.6	7.9	8.2	7.3	6.6	6.9	8.2	6.8	7.2
24	8.9	7.8	8.4	8.8	7.9	8.3	7.8	6.7	7.0	8.4	7.1	7.6
25	---	---	---	8.6	7.8	8.2	7.7	6.6	7.0	8.2	7.1	7.6
26	---	---	---	8.8	7.8	8.1	7.8	6.5	6.9	7.8	6.8	7.3
27	---	---	---	8.3	7.7	7.9	7.3	6.6	6.8	8.4	6.6	7.4
28	7.7	7.3	7.5	8.3	7.6	7.9	7.7	6.0	6.9	8.2	6.5	7.1
29	8.0	7.2	7.6	8.4	7.6	7.8	6.8	6.2	6.4	7.7	6.7	7.0
30	8.1	7.1	7.5	8.6	7.4	7.9	7.1	6.4	6.6	7.8	6.3	7.2
31	---	---	---	8.8	7.6	8.1	7.4	6.9	7.2	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	8.9	6.3	7.6

03463300 SOUTH TOE RIVER NEAR CELO, NC

LOCATION.--Lat 35°49'53", long 82°11'03", Yancey County, Hydrologic Unit 06010108, on right bank on Secondary Road 1168, 800 ft upstream from bridge on Secondary Road 1167, 0.3 mi downstream of Whiteoak Creek, 1.9 mi southeast of Celo, and at mile 20.1.

DRAINAGE AREA.--43.3 mi^2.

PERIOD OF RECORD.--July 1957 to current year.

REVISED RECORDS.--WSP 1910: 1958-59. WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 2,658 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum discharge for period of record, from rating curve extended above 5,000 ft^3/s on basis of slope-area measurement of peak flow; gage height from outside floodmarks. Minimum discharge for period of record also occurred Sept. 26, 27, 1999, Sept. 11, 12, 13, 2002. Minimum discharge for current water year also occurred May 31, June 1.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	351	e123	205	116	81	113	203	128	135	219	121	442
2	309	e122	165	113	79	104	364	116	676	190	109	332
3	278	e128	147	108	96	99	252	108	248	195	102	270
4	257	e350	136	105	92	97	231	102	177	182	97	229
5	237	192	128	102	85	104	232	102	138	159	96	202
6	222	136	134	100	85	102	213	97	127	141	106	179
7	210	117	141	94	83	105	202	91	126	686	168	159
8	203	105	125	100	86	198	399	87	811	387	782	144
9	198	96	211	92	92	138	309	83	311	254	367	132
10	187	90	223	89	97	124	236	94	241	215	254	121
11	176	86	182	85	83	117	204	90	246	771	194	114
12	172	241	159	83	80	112	193	80	1,040	1,140	160	107
13	205	195	146	116	85	114	246	77	1,420	481	147	101
14	174	153	133	432	99	143	343	78	618	372	138	95
15	155	147	124	170	94	120	260	87	402	852	127	90
16	144	131	117	142	92	123	219	79	308	831	118	92
17	139	122	112	123	88	120	192	73	253	480	111	88
18	136	115	107	e111	79	112	172	70	225	374	416	80
19	e137	109	103	e106	76	111	155	68	223	323	281	76
20	e135	105	e100	104	82	107	141	98	203	305	197	73
21	e132	99	e97	102	283	104	131	79	181	267	161	70
22	e134	95	93	e100	218	122	157	71	158	238	169	69
23	e145	122	689	e97	157	345	177	78	181	217	220	66
24	e140	382	270	e94	154	205	147	68	142	188	186	63
25	e134	298	203	88	139	167	133	64	129	168	158	65
26	e130	209	173	87	123	153	135	61	129	152	142	78
27	e128	183	153	82	114	184	140	59	503	139	130	69
28	e129	194	141	77	131	905	128	57	406	131	121	61
29	e132	161	134	86	---	347	141	56	346	144	236	59
30	e130	148	128	100	---	253	142	53	272	131	2,660	58
31	e125	---	122	86	---	211	---	51	---	131	772	---
TOTAL	5,484	4,754	5,101	3,490	3,053	5,359	6,197	2,505	10,375	10,463	9,046	3,784
MEAN	177	158	165	113	109	173	207	80.8	346	338	292	126
MAX	351	382	689	432	283	905	399	128	1,420	1,140	2,660	442
MIN	125	86	93	77	76	97	128	51	126	131	96	58
CFSM	4.09	3.66	3.80	2.60	2.52	3.99	4.77	1.87	7.99	7.79	6.74	2.91
IN.	4.71	4.08	4.38	3.00	2.62	4.60	5.32	2.15	8.91	8.99	7.77	3.25

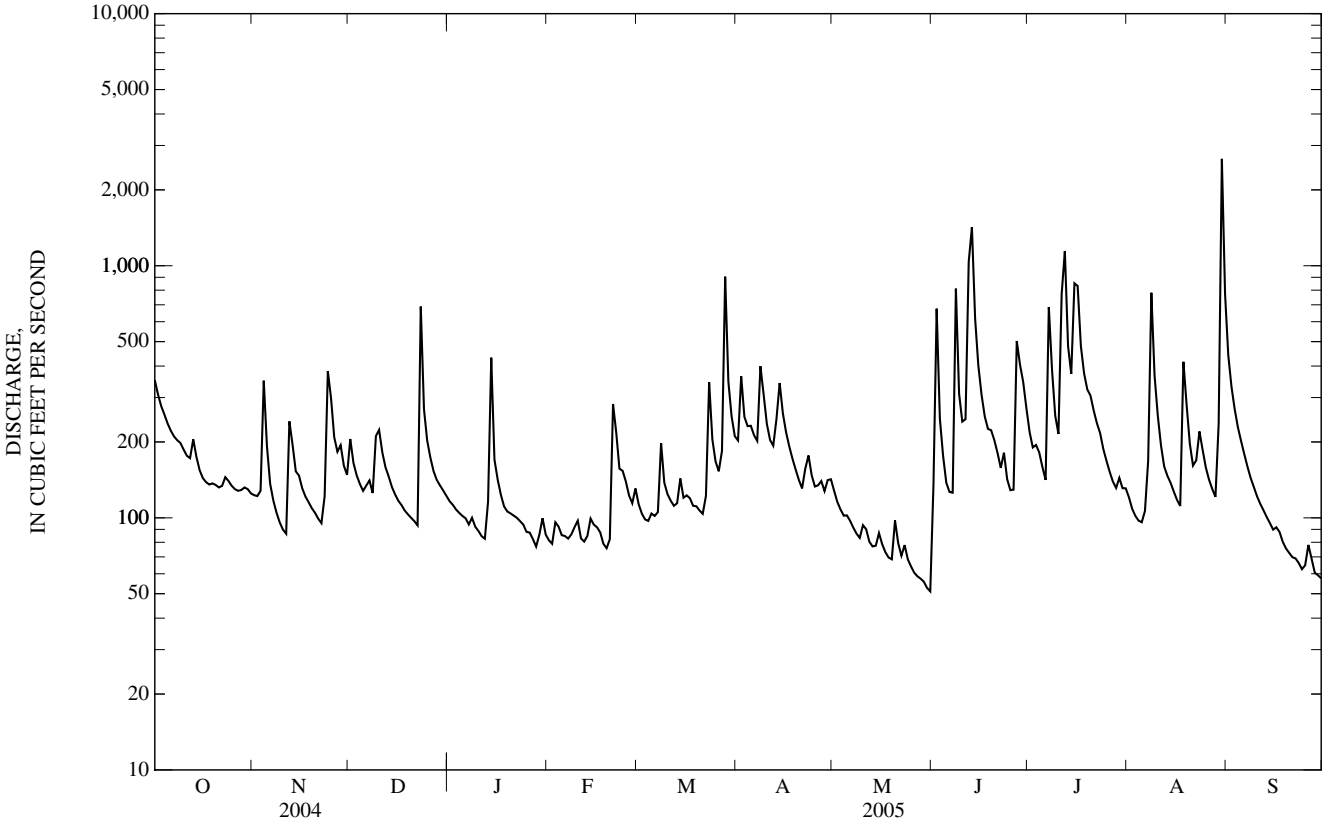
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2005, BY WATER YEAR (WY)

MEAN	123	145	137	159	178	221	189	151	126	87.7	97.3	127
MAX	359	714	277	428	466	596	361	373	415	338	323	1,268
(WY)	(1996)	(1978)	(1984)	(1995)	(1998)	(1979)	(1983)	(1976)	(1972)	(2005)	(1994)	(2004)
MIN	15.8	24.9	41.5	62.2	76.6	69.1	59.7	53.1	34.8	23.3	22.5	14.6
(WY)	(1994)	(1999)	(1966)	(1966)	(1963)	(1988)	(1986)	(1986)	(1988)	(1986)	(2002)	(1998)

03463300 SOUTH TOE RIVER NEAR CELO, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1957 - 2005	
ANNUAL TOTAL	74,978		69,611			
ANNUAL MEAN	205		191		145	
HIGHEST ANNUAL MEAN					227	1979
LOWEST ANNUAL MEAN					79.4	1988
HIGHEST DAILY MEAN	8,390	Sep 8	2,660	Aug 30	9,960	Nov 6, 1977
LOWEST DAILY MEAN	37	Jul 23	51	May 31	9.5	Sep 12, 2002
ANNUAL SEVEN-DAY MINIMUM	45	Aug 17	57	May 25	11	Sep 20, 1999
MAXIMUM PEAK FLOW			9,340	Aug 30	32,900*	Nov 6, 1977
MAXIMUM PEAK STAGE			8.11	Aug 30	17.41*	Nov 6, 1977
INSTANTANEOUS LOW FLOW			51*	May 30	9.4*	Sep 25, 1999
ANNUAL RUNOFF (CFSM)	4.73		4.40		3.35	
ANNUAL RUNOFF (INCHES)	64.42		59.80		45.47	
10 PERCENT EXCEEDS	256		336		260	
50 PERCENT EXCEEDS	96		134		99	
90 PERCENT EXCEEDS	51		81		37	

* See REMARKS.
e Estimated.



03479000 WATAUGA RIVER NEAR SUGAR GROVE, NC

LOCATION.--Lat 36°14'21", long 81°49'20", Watauga County, Hydrologic Unit 06010103, on right bank 250 ft upstream from bridge on Secondary Road 1121, 300 ft downstream of Cove Creek, 2.3 mi southwest of Sugar Grove, and at mile 64.4.

DRAINAGE AREA.--92.1 mi^2.

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,607.84 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Maximum discharge for period of record from rating curve extended above 7,300 ft^3/s on basis of slope-area measurement of peak flow, from profile based on floodmarks. Minimum discharge for period of record, result of freezeup. Minimum discharge for current water year also occurred Sept. 25.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 1916 reached a stage of 22.1 ft, from floodmarks on barn 0.25 mi upstream from station, as witnessed by local resident; discharge, 28,000 ft^3/s, from rating curve extended above 4,900 ft^3/s, on basis of slope-area measurement.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	327	222	281	167	152	188	325	288	108	103	96	159
2	293	207	250	159	146	e174	817	247	307	115	86	126
3	269	199	236	153	187	e166	638	221	207	99	108	107
4	246	270	224	149	192	163	514	202	173	220	113	94
5	229	253	212	145	179	210	412	190	151	125	97	87
6	214	218	216	143	172	235	339	182	137	114	86	81
7	204	207	222	136	166	221	317	171	129	606	82	76
8	194	196	204	142	167	282	382	160	145	382	105	72
9	189	184	280	132	171	252	344	152	181	203	218	67
10	183	177	332	127	186	231	294	146	470	160	153	64
11	175	171	339	124	165	222	268	144	260	146	108	62
12	170	277	316	122	157	214	254	138	270	192	93	60
13	293	262	286	190	166	204	271	132	610	168	84	56
14	214	222	255	1,710	225	227	321	176	363	153	82	55
15	192	208	233	543	210	209	259	203	268	146	76	52
16	179	201	219	373	204	212	233	163	216	235	72	51
17	167	195	211	295	190	220	218	141	187	164	73	55
18	162	189	203	258	171	204	207	134	166	192	180	51
19	180	183	197	224	161	203	198	129	171	350	160	48
20	178	178	e186	212	159	194	188	176	173	421	135	46
21	166	170	e178	204	183	185	185	142	148	231	96	45
22	160	165	161	193	177	180	218	130	134	190	83	44
23	157	197	766	192	161	414	223	143	127	160	78	44
24	166	471	476	e181	178	343	206	130	116	137	76	42
25	157	552	332	e169	176	288	195	123	110	124	70	47
26	151	380	275	167	164	258	190	118	106	116	66	57
27	160	317	234	156	160	241	193	113	106	106	65	65
28	264	303	210	140	193	961	180	110	109	107	64	48
29	270	262	199	148	---	717	340	107	102	118	61	47
30	296	245	190	168	---	498	342	103	97	107	428	47
31	247	---	178	155	---	386	---	100	---	104	324	---
TOTAL	6,452	7,281	8,101	7,377	4,918	8,702	9,071	4,814	5,847	5,794	3,618	1,955
MEAN	208	243	261	238	176	281	302	155	195	187	117	65.2
MAX	327	552	766	1,710	225	961	817	288	610	606	428	159
MIN	151	165	161	122	146	163	180	100	97	99	61	42
CFSM	2.26	2.64	2.84	2.58	1.91	3.05	3.28	1.69	2.12	2.03	1.27	0.71
IN.	2.61	2.94	3.27	2.98	1.99	3.51	3.66	1.94	2.36	2.34	1.46	0.79

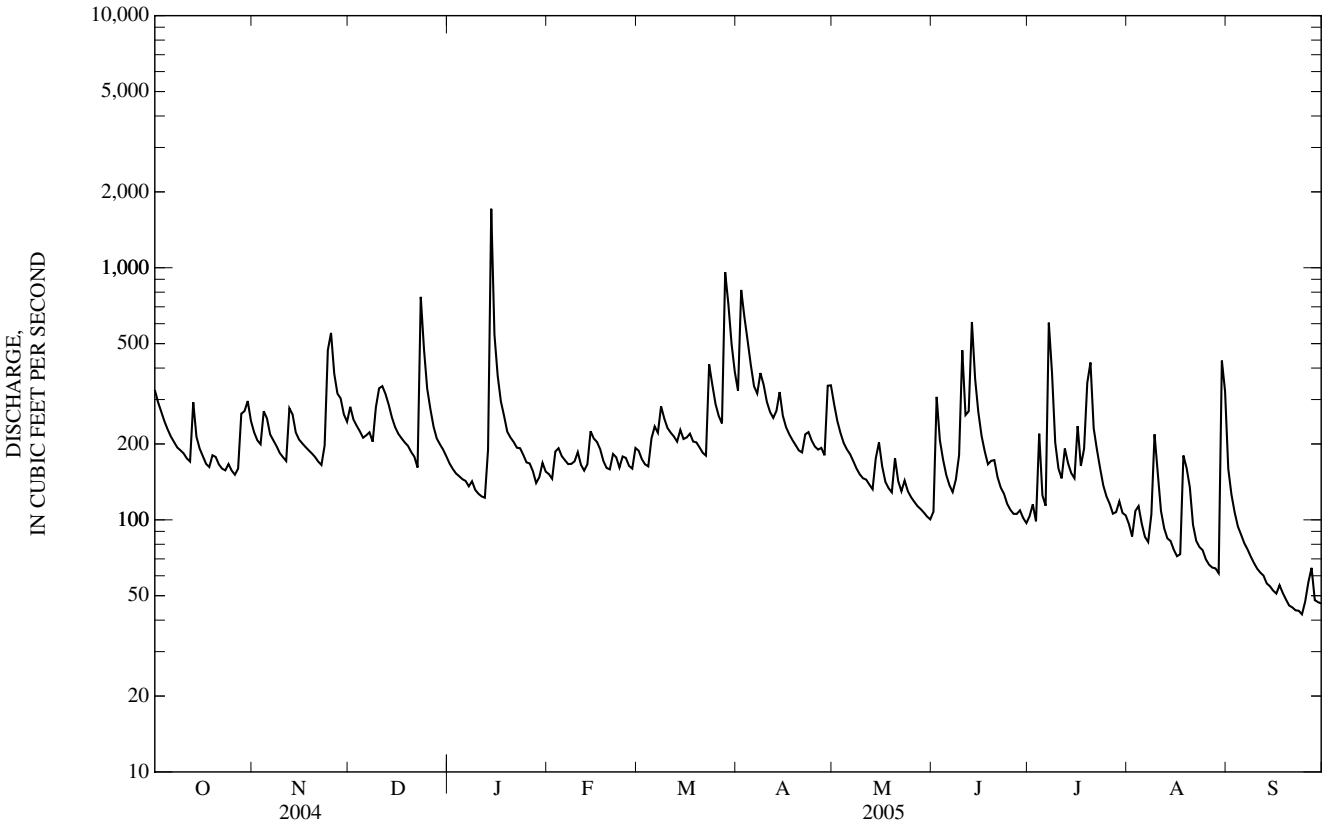
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2005, BY WATER YEAR (WY)

MEAN	111	155	173	210	262	303	259	179	147	113	119	121
MAX	380	662	434	817	643	858	689	411	583	461	1,169	1,049
(WY)	(1965)	(1978)	(1951)	(1995)	(1998)	(1979)	(1987)	(1973)	(1992)	(1989)	(1940)	(2004)
MIN	19.2	34.6	45.6	55.5	67.5	77.0	82.1	67.5	41.4	35.0	23.9	18.1
(WY)	(1955)	(1982)	(1964)	(1956)	(1941)	(1988)	(1986)	(1941)	(1988)	(1944)	(2002)	(1954)

03479000 WATAUGA RIVER NEAR SUGAR GROVE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1940 - 2005	
ANNUAL TOTAL	92,233		73,930			
ANNUAL MEAN	252		203		177	
HIGHEST ANNUAL MEAN					297	1979
LOWEST ANNUAL MEAN					84.7	1988
HIGHEST DAILY MEAN	8,970	Sep 8	1,710	Jan 14	15,900	Aug 13, 1940
LOWEST DAILY MEAN	41	Aug 31	42	Sep 24	8.1	Sep 13, 2002
ANNUAL SEVEN-DAY MINIMUM	47	Aug 26	45	Sep 19	11	Sep 7, 2002
MAXIMUM PEAK FLOW			4,000	Jan 14	50,800*	Aug 13, 1940
MAXIMUM PEAK STAGE			8.89	Jan 14	29.60	Aug 13, 1940
INSTANTANEOUS LOW FLOW			41*	Sep 24	6.5*	Jan 1, 1954
ANNUAL RUNOFF (CFSM)	2.74		2.20		1.92	
ANNUAL RUNOFF (INCHES)	37.25		29.86		26.15	
10 PERCENT EXCEEDS	312		324		324	
50 PERCENT EXCEEDS	174		180		117	
90 PERCENT EXCEEDS	75		82		39	

* See REMARKS.
e Estimated.



03500000 LITTLE TENNESSEE RIVER NEAR PRENTISS, NC

LOCATION.--Lat 35°09'00", long 83°22'47", Macon County, Hydrologic Unit 06010202, on left bank 600 ft upstream from Owenby Branch, 0.5 mi upstream from Cartoogechaye Creek, 2 mi north of Prentiss, and at mile 119.5.

DRAINAGE AREA.--140 mi^2.

PERIOD OF RECORD.--October 1943 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 1236: 1949(M).

GAGE.--Water-stage recorder. Datum of gage is 2,008.39 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred Aug. 30, 31, Sept. 16, 17, 2000.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in October 1898 reached a stage of about 15 ft, from profiles by Tennessee Valley Authority.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	542	282	752	487	375	510	676	474	375	521	553	782
2	502	303	589	472	373	458	838	426	802	503	498	651
3	474	607	525	462	553	433	734	406	592	456	472	577
4	442	877	486	450	462	416	642	392	504	540	447	527
5	422	650	454	447	417	407	585	383	435	540	473	492
6	405	470	680	439	396	387	545	377	403	466	483	464
7	392	414	1,100	428	381	383	585	364	511	1,390	635	443
8	379	382	906	465	374	574	819	354	763	1,050	801	427
9	372	357	1,120	429	372	450	771	345	619	742	652	410
10	365	342	1,210	416	361	421	635	379	629	920	573	396
11	354	345	926	407	345	402	580	387	676	1,310	521	384
12	352	886	786	401	340	388	553	345	1,350	2,220	477	373
13	388	706	706	545	344	375	681	342	2,420	1,360	525	362
14	350	535	643	1,030	412	379	694	339	1,310	1,070	641	352
15	340	470	607	619	401	361	593	392	989	1,360	510	342
16	327	437	569	540	371	413	548	361	823	990	472	372
17	319	411	546	495	354	418	518	330	720	870	499	350
18	317	392	526	458	335	388	497	318	694	771	563	328
19	357	377	506	439	327	369	477	311	784	782	664	318
20	346	368	479	430	347	359	461	970	e750	709	542	310
21	320	355	466	419	704	349	448	716	e650	654	477	304
22	313	352	459	406	776	374	508	515	e550	613	455	297
23	308	378	1,420	391	544	754	606	444	511	600	534	293
24	311	809	954	377	563	543	484	404	481	548	692	286
25	305	833	745	378	496	466	451	377	456	522	498	279
26	299	597	662	374	453	432	441	359	446	494	453	303
27	296	528	605	362	430	443	448	344	603	470	427	304
28	298	548	569	350	597	1,220	419	334	626	478	407	282
29	297	478	545	393	---	790	411	326	543	864	395	289
30	290	449	525	465	---	631	515	334	482	712	1,610	278
31	285	---	505	397	---	701	---	321	---	573	1,320	---
TOTAL	11,067	14,938	21,571	14,171	12,203	14,994	17,163	12,469	21,497	25,098	18,269	11,575
MEAN	357	498	696	457	436	484	572	402	717	810	589	386
MAX	542	886	1,420	1,030	776	1,220	838	970	2,420	2,220	1,610	782
MIN	285	282	454	350	327	349	411	311	375	456	395	278
CFSM	2.55	3.56	4.97	3.27	3.11	3.45	4.09	2.87	5.12	5.78	4.21	2.76
IN.	2.94	3.97	5.73	3.77	3.24	3.98	4.56	3.31	5.71	6.67	4.85	3.08

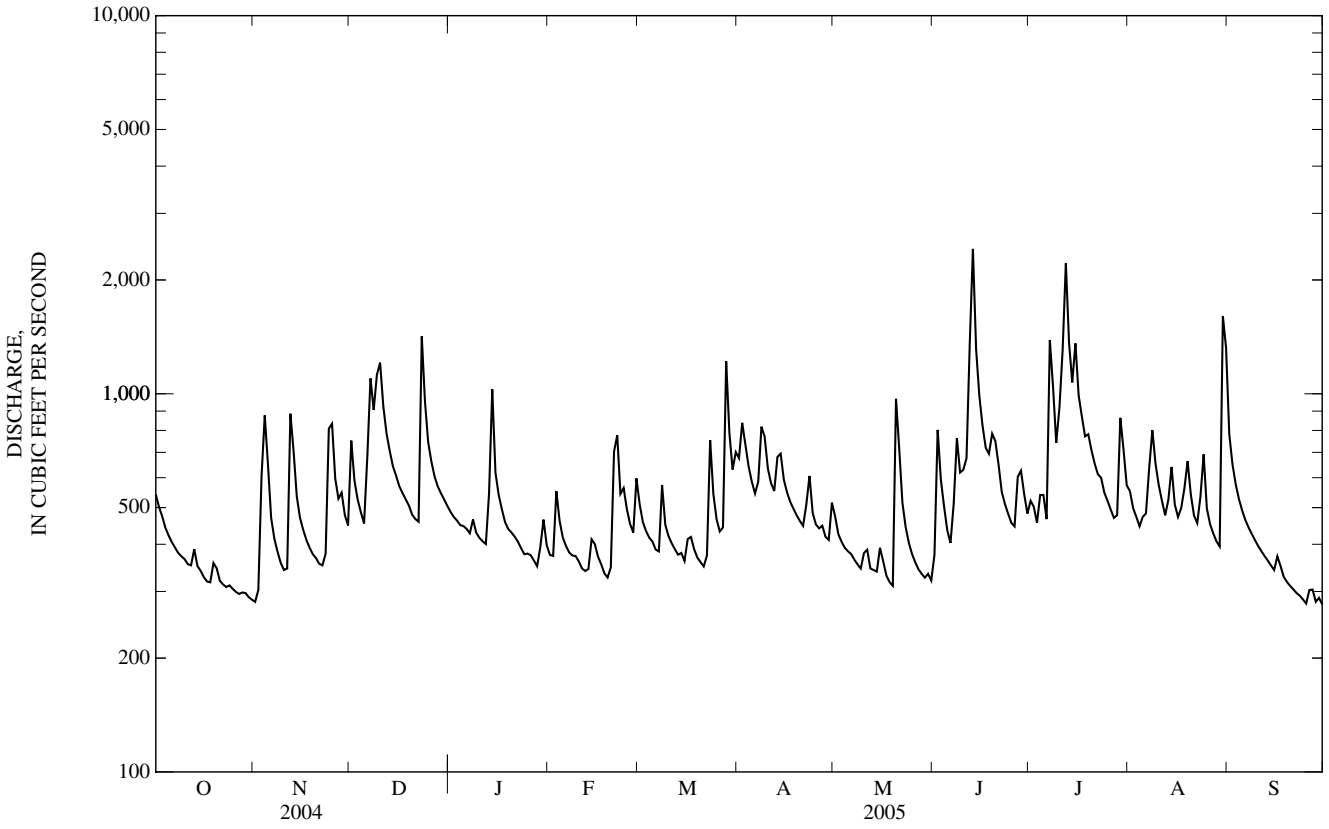
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2005, BY WATER YEAR (WY)

MEAN	249	305	395	480	555	595	553	426	345	265	243	238
MAX	1,078	815	841	1,008	1,252	1,199	1,014	999	717	810	695	1,030
(WY)	(1965)	(1980)	(1962)	(1946)	(1990)	(1952)	(1964)	(1976)	(2005)	(2005)	(1974)	(2004)
MIN	70.5	101	153	120	222	244	172	157	110	94.8	78.3	80.2
(WY)	(1955)	(1955)	(2001)	(1981)	(1986)	(1988)	(1986)	(1986)	(1988)	(1986)	(1986)	(1954)

03500000 LITTLE TENNESSEE RIVER NEAR PRENTISS, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1944 - 2005	
ANNUAL TOTAL	151,237		195,015			
ANNUAL MEAN	413		534		387	
HIGHEST ANNUAL MEAN					588	1949
LOWEST ANNUAL MEAN					173	1986
HIGHEST DAILY MEAN	7,830	Sep 17	2,420	Jun 13	7,830	Sep 17, 2004
LOWEST DAILY MEAN	137	Aug 19	278	Sep 30	52	Aug 30, 2000
ANNUAL SEVEN-DAY MINIMUM	144	Aug 14	289	Sep 24	58	Sep 14, 2000
MAXIMUM PEAK FLOW			2,650	Jun 13	12,200	Oct 4, 1964
MAXIMUM PEAK STAGE			6.85	Jun 13	17.30	Oct 4, 1964
INSTANTANEOUS LOW FLOW			270	Sep 30	52*	Sep 17, 1999
ANNUAL RUNOFF (CFSM)	2.95		3.82		2.76	
ANNUAL RUNOFF (INCHES)	40.19		51.82		37.54	
10 PERCENT EXCEEDS	654		794		695	
50 PERCENT EXCEEDS	324		465		309	
90 PERCENT EXCEEDS	178		334		129	

* See REMARKS.
e Estimated.



03500240 CARTOOGECHAYE CREEK NEAR FRANKLIN, NC

LOCATION.--Lat 35°09'32", long 83°23'39", Macon County, Hydrologic Unit 06010202, on downstream side of center pier of bridge on Secondary Road 1152, 0.1 mi downstream of unnamed creek, 1.8 mi south of Franklin, and 1.9 mi upstream from mouth.

DRAINAGE AREA.--57.1 mi^2.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1944, 1947, 1953-55, 1958, 1960. June 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,017.18 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Maximum discharge for period of record from rating curve extended above 3,300 ft^3/s on basis of contracted-opening measurement of peak flow. Minimum discharge for current water year also occurred Sept. 30. Minimum discharge for period of record also occurred Oct. 8, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in June 1949 reached a stage of 15.6 ft, from studies by Tennessee Valley Authority; discharge, about 7,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	171	87	355	159	138	206	215	200	172	236	153	275
2	160	99	261	153	144	186	316	181	362	223	140	215
3	151	274	224	149	265	176	299	171	215	185	135	186
4	139	452	201	146	205	168	265	161	181	176	129	167
5	133	260	184	143	179	166	240	155	161	163	133	153
6	127	183	381	145	164	157	219	150	155	151	130	142
7	123	154	612	139	153	158	239	143	211	565	200	134
8	119	137	466	182	147	390	339	137	628	341	197	128
9	116	126	547	151	146	265	254	133	362	236	213	123
10	115	119	546	143	144	227	228	142	279	267	208	118
11	111	119	433	138	132	206	212	135	249	517	155	114
12	110	353	348	136	130	190	207	128	721	630	139	110
13	124	248	299	194	133	179	268	135	856	482	133	107
14	111	192	262	412	192	191	261	125	528	448	134	104
15	108	168	237	242	174	169	227	135	375	341	122	101
16	102	153	220	206	166	186	210	125	298	289	173	121
17	99	143	210	182	151	187	196	118	259	261	154	108
18	99	134	199	168	142	175	186	114	250	230	161	99
19	154	129	190	160	136	167	180	113	235	228	173	95
20	123	125	179	156	156	160	173	581	223	312	143	92
21	109	119	173	152	374	153	166	349	210	250	128	91
22	103	117	170	147	367	184	186	238	192	215	120	89
23	100	145	484	137	261	277	238	196	179	192	136	88
24	101	548	283	131	266	214	186	174	169	178	125	86
25	98	545	237	133	220	192	173	158	159	167	118	84
26	94	333	215	133	199	178	172	149	158	160	113	92
27	92	262	197	126	186	190	173	141	207	151	110	91
28	96	240	184	121	247	392	161	137	187	147	107	84
29	93	203	178	154	---	268	159	133	182	220	106	87
30	90	187	171	175	---	231	242	135	185	172	1,020	83
31	89	---	165	146	---	236	---	126	---	157	487	---
TOTAL	3,560	6,354	8,811	5,059	5,317	6,424	6,590	5,218	8,548	8,290	5,695	3,567
MEAN	115	212	284	163	190	207	220	168	285	267	184	119
MAX	171	548	612	412	374	392	339	581	856	630	1,020	275
MIN	89	87	165	121	130	153	159	113	155	147	106	83
CFSM	2.01	3.71	4.98	2.86	3.33	3.63	3.85	2.95	4.99	4.68	3.22	2.08
IN.	2.32	4.14	5.74	3.30	3.46	4.19	4.29	3.40	5.57	5.40	3.71	2.32

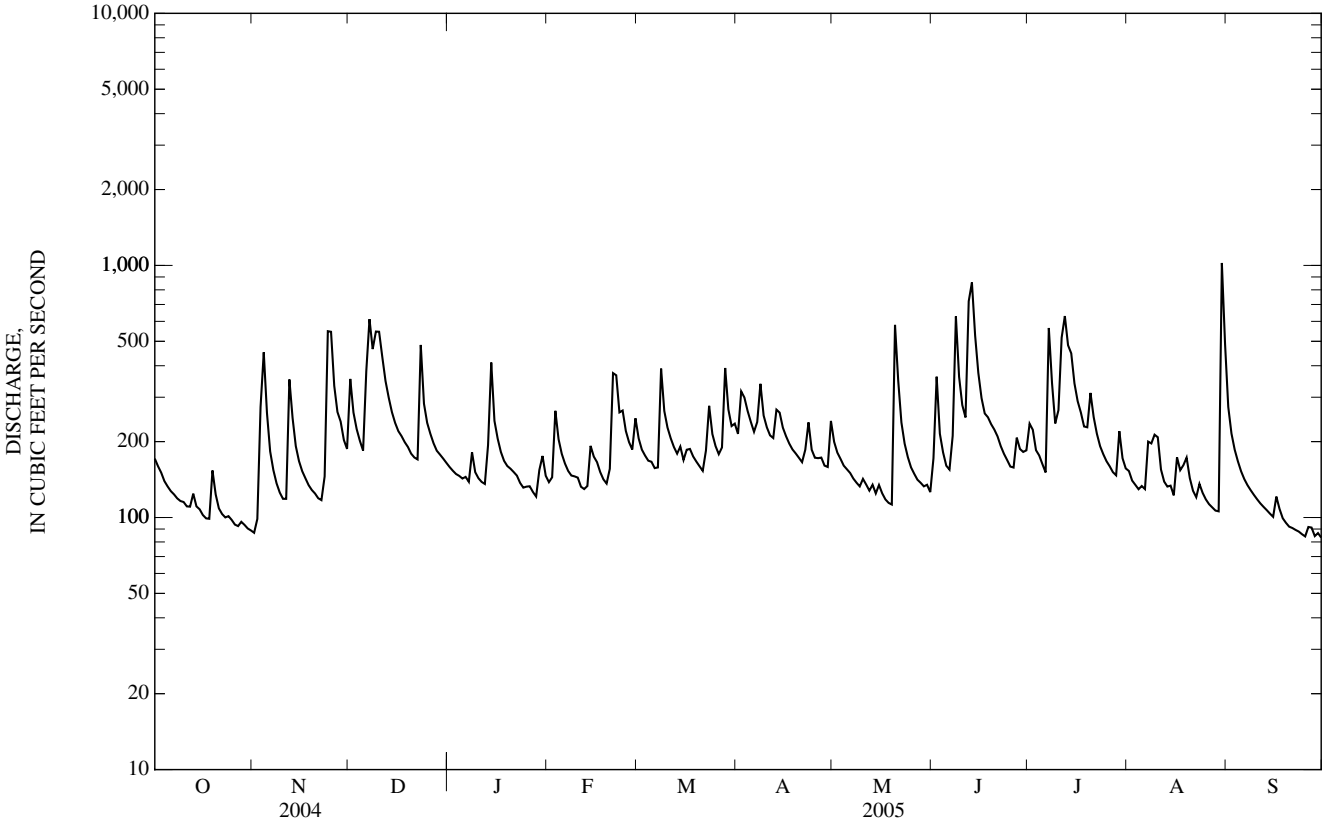
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2005, BY WATER YEAR (WY)

MEAN	83.2	110	150	188	219	237	200	157	122	92.3	83.3	80.7
MAX	295	266	317	336	460	440	375	339	285	267	185	393
(WY)	(1965)	(1993)	(1962)	(1996)	(1990)	(1980)	(1964)	(1976)	(2005)	(2005)	(1994)	(2004)
MIN	24.7	41.2	52.2	55.2	99.1	84.7	72.9	56.3	42.3	32.7	28.7	25.6
(WY)	(2001)	(2002)	(1966)	(1981)	(2002)	(1988)	(1986)	(2001)	(1988)	(2000)	(2000)	(1999)

03500240 CARTOOGECHAYE CREEK NEAR FRANKLIN, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1961 - 2005	
ANNUAL TOTAL	59,660		73,433			
ANNUAL MEAN	163		201		143	
HIGHEST ANNUAL MEAN					204	1990
LOWEST ANNUAL MEAN					69.9	1986
HIGHEST DAILY MEAN	3,340	Sep 17	1,020	Aug 30	3,340	Sep 17, 2004
LOWEST DAILY MEAN	52	Sep 6	83	Sep 30	18	Oct 7, 1986
ANNUAL SEVEN-DAY MINIMUM	59	Aug 14	87	Sep 24	19	Sep 14, 2000
MAXIMUM PEAK FLOW			1,500	Jun 12	6,440*	Sep 17, 2004
MAXIMUM PEAK STAGE			8.02	Jun 12	14.12	Sep 17, 2004
INSTANTANEOUS LOW FLOW			79*	Sep 26	16*	Oct 7, 1986
ANNUAL RUNOFF (CFSM)	2.85		3.52		2.50	
ANNUAL RUNOFF (INCHES)	38.87		47.84		34.04	
10 PERCENT EXCEEDS	260		340		260	
50 PERCENT EXCEEDS	120		170		108	
90 PERCENT EXCEEDS	72		110		47	

* See REMARKS.



0350056050 CULLASAJA RIVER AT SR 1620 NEAR HIGHLANDS, NC

LOCATION.--Lat 35°04'34", long 83°14'56", Macon County, Hydrologic Unit 06010202, at bridge on Secondary Road 1620, downstream from Long Branch and approximately 3.4 mi northwest of Highlands.

DRAINAGE AREA.--18.8 mi^2.

PERIOD OF RECORD.--July 2001 to current year.

REVISED RECORDS.--WDR NC-04-01: 2001-2003(M).

GAGE.--Water-stage recorder. Elevation of gage is 3,230 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum discharge for period of record, from rating curve extended above 2,300 ft^3/s, on basis of peak flow over dam at Lake Sequoyah. Minimum discharge for period of record also occurred Sept. 12, 2002.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	129	53	196	82	62	81	113	73	65	156	122	151
2	118	58	118	79	62	70	219	64	239	133	96	129
3	109	120	105	77	98	67	144	61	127	173	87	116
4	103	332	97	74	76	70	129	58	96	179	120	106
5	97	127	91	72	67	68	113	56	83	137	125	98
6	95	95	137	73	64	58	100	55	81	119	103	92
7	97	85	199	69	62	61	105	52	71	527	144	87
8	79	77	141	85	61	95	166	49	95	231	235	82
9	80	72	262	71	60	72	118	47	182	208	161	79
10	81	68	196	66	58	61	102	46	155	412	132	76
11	78	73	150	64	55	56	95	46	151	924	e125	73
12	82	260	130	63	55	57	92	44	992	744	e113	71
13	95	125	118	137	56	56	121	45	881	358	151	68
14	80	99	109	243	73	60	117	43	333	282	170	66
15	73	90	101	104	66	62	94	57	235	530	e108	63
16	70	84	96	91	61	64	87	47	189	272	e98	74
17	67	79	91	82	57	68	82	42	164	211	e105	66
18	67	76	87	77	54	56	78	39	186	181	175	59
19	81	72	84	74	53	50	75	38	163	192	165	56
20	77	71	79	72	62	52	71	180	145	192	116	53
21	70	68	77	70	127	51	69	91	128	153	104	52
22	65	66	79	68	103	63	81	69	117	143	97	52
23	60	71	499	65	80	162	97	61	107	126	123	49
24	68	330	164	64	87	88	74	55	99	115	111	47
25	64	191	130	61	77	75	69	50	92	107	94	47
26	65	123	115	61	71	68	68	48	87	99	88	71
27	62	116	105	59	68	82	70	45	199	92	83	56
28	58	129	99	56	97	299	65	43	281	93	79	50
29	54	102	94	69	---	129	62	42	193	177	79	50
30	55	97	90	82	---	104	84	45	176	147	522	48
31	53	---	86	70	---	125	---	42	---	115	215	---
TOTAL	2,432	3,409	4,125	2,480	1,972	2,530	2,960	1,733	6,112	7,528	4,246	2,187
MEAN	78.5	114	133	80.0	70.4	81.6	98.7	55.9	204	243	137	72.9
MAX	129	332	499	243	127	299	219	180	992	924	522	151
MIN	53	53	77	56	53	50	62	38	65	92	79	47
CFSM	4.18	6.06	7.09	4.26	3.75	4.35	5.26	2.98	10.9	12.9	7.30	3.89
IN.	4.82	6.76	8.18	4.92	3.91	5.02	5.87	3.44	12.12	14.93	8.42	4.34

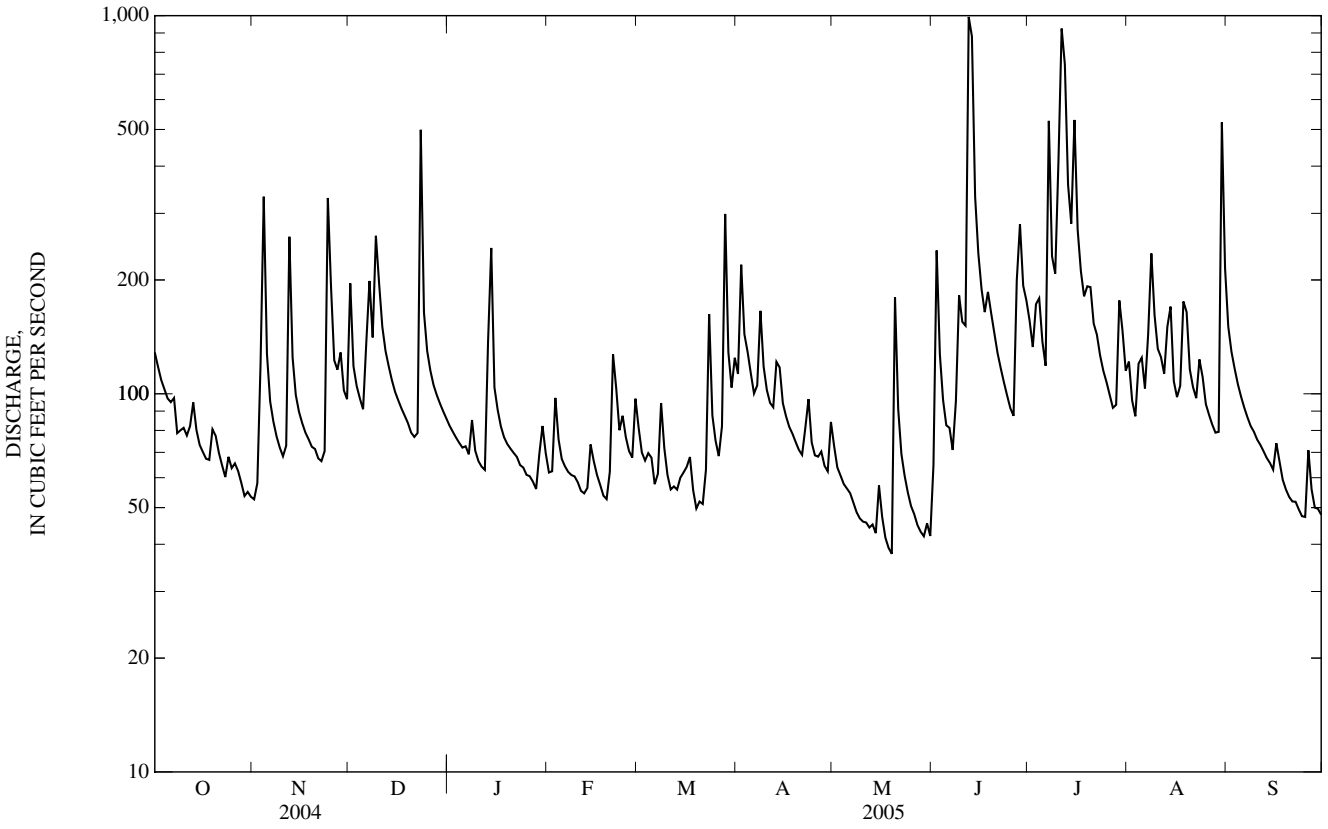
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2005, BY WATER YEAR (WY)

MEAN	61.6	94.4	104	73.8	83.6	77.3	81.2	76.2	93.0	93.7	67.4	138
MAX	78.5	133	133	80.0	105	97.0	99.0	131	204	243	137	366
(WY)	(2005)	(2004)	(2005)	(2005)	(2004)	(2003)	(2003)	(2003)	(2005)	(2005)	(2005)	(2004)
MIN	45.9	40.1	56.6	62.7	63.4	46.5	51.8	54.3	30.5	22.2	15.3	48.9
(WY)	(2004)	(2002)	(2002)	(2004)	(2002)	(2004)	(2004)	(2004)	(2002)	(2002)	(2002)	(2001)

0350056050 CULLASAJA RIVER AT SR 1620 NEAR HIGHLANDS, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2001 - 2005	
ANNUAL TOTAL	36,043		41,714			
ANNUAL MEAN	98.5		114		90.3	
HIGHEST ANNUAL MEAN					114	2005
LOWEST ANNUAL MEAN					57.3	2002
HIGHEST DAILY MEAN	2,840	Sep 17	992	Jun 12	2,840	Sep 17, 2004
LOWEST DAILY MEAN	22	Jul 24	38	May 19	7.9	Aug 22, 2002
ANNUAL SEVEN-DAY MINIMUM	25	Jul 20	44	May 13	8.5	Aug 9, 2002
MAXIMUM PEAK FLOW			2,290	Jun 12	5,300*	Sep 17, 2004
MAXIMUM PEAK STAGE			11.13	Jun 12	16.15	Sep 17, 2004
INSTANTANEOUS LOW FLOW			35	May 19	6.7*	Aug 22, 2002
ANNUAL RUNOFF (CFSM)	5.25		6.09		4.81	
ANNUAL RUNOFF (INCHES)	71.47		82.72		65.37	
10 PERCENT EXCEEDS	152		190		147	
50 PERCENT EXCEEDS	61		83		68	
90 PERCENT EXCEEDS	34		55		32	

* See REMARKS.
e Estimated.



03503000 LITTLE TENNESSEE RIVER AT NEEDMORE, NC

LOCATION.--Lat 35°20'11", long 83°31'37", Swain County, Hydrologic Unit 06010202, on left bank on Secondary Road 1113, 0.8 mi downstream of DeHart Creek, 0.8 mi north of Needmore, 2.4 mi downstream of Brush Creek, 6.3 mi downstream of Tellico Creek, and at mile 92.9.

DRAINAGE AREA.--436 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1943 to December 1981, October 1983 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 1,761.19 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Considerable diurnal fluctuation caused by Porters Bend power plant at Lake Emory, 20 mi upstream. Minimum discharge for period of record also occurred Nov. 8, 1954. Minimum discharge for current water year also occurred Sept. 29, 30.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of October 1898 and Aug. 30, 1940, reached stages of about 13 and 11.5 ft, respectively, from flood profiles by Tennessee Valley Authority.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,320	640	1,940	1,130	999	1,460	1,740	1,340	927	1,510	1,450	1,920
2	1,210	647	1,650	1,090	976	1,280	2,160	1,120	1,950	1,560	1,240	1,440
3	1,140	1,270	1,410	1,070	1,450	1,190	2,160	1,070	1,510	1,240	1,090	1,230
4	1,050	2,360	1,280	1,050	1,350	1,140	1,950	1,020	1,310	1,400	1,060	1,090
5	991	1,960	1,180	1,040	1,170	1,130	1,730	989	1,110	1,350	1,060	995
6	946	1,210	1,590	1,030	1,090	1,070	1,550	982	1,060	1,140	1,160	928
7	926	1,020	3,170	1,020	1,030	1,040	1,520	959	1,260	3,740	1,160	893
8	888	936	2,650	1,110	1,010	1,750	2,110	937	2,060	3,570	1,980	861
9	847	846	2,650	1,070	1,000	1,490	1,870	923	2,060	2,080	1,610	830
10	839	815	3,610	1,000	997	1,300	1,610	961	1,620	2,450	1,560	794
11	817	789	2,600	980	940	1,200	1,460	1,060	1,750	3,060	1,210	766
12	795	2,050	2,120	963	914	1,150	1,390	909	2,990	7,240	1,060	745
13	900	2,030	1,870	984	917	1,090	1,640	959	7,730	4,480	1,130	714
14	819	1,330	1,660	2,990	1,100	1,130	2,040	902	3,920	3,420	1,470	694
15	783	1,140	1,510	1,730	1,230	1,050	1,640	970	2,270	3,630	1,180	678
16	750	1,050	1,430	1,430	1,070	1,120	1,480	975	1,750	2,710	1,020	736
17	724	983	1,370	1,270	1,020	1,230	1,380	874	1,510	2,280	1,120	746
18	722	938	1,290	1,160	969	1,140	1,320	835	1,340	1,940	1,250	661
19	866	901	1,250	1,110	933	1,050	1,260	839	1,640	1,810	1,720	636
20	874	872	1,170	1,080	997	1,020	1,210	2,630	1,340	2,100	1,220	615
21	763	844	1,120	1,060	1,980	995	1,140	2,470	1,320	1,810	1,030	599
22	721	832	1,100	1,030	2,680	1,010	1,150	1,540	1,260	1,580	940	587
23	706	946	2,930	991	1,780	1,970	1,600	1,280	1,150	1,430	985	575
24	713	2,470	2,530	931	1,690	1,650	1,300	1,130	1,060	1,290	1,280	561
25	702	3,150	1,770	968	1,490	1,340	1,180	1,040	986	1,210	1,010	542
26	684	1,870	1,540	979	1,330	1,230	1,130	978	958	1,130	909	546
27	672	1,470	1,400	953	1,240	1,170	1,170	947	1,520	1,060	864	609
28	670	1,470	1,300	908	1,560	2,960	1,090	925	2,050	1,060	824	543
29	694	1,260	1,250	961	---	2,270	1,070	901	1,680	1,650	811	531
30	663	1,160	1,210	1,270	---	1,740	1,230	906	1,510	2,070	4,210	532
31	652	---	1,170	1,080	---	1,590	---	890	---	1,390	4,230	---
TOTAL	25,847	39,259	54,720	35,438	34,912	41,955	45,280	34,261	54,601	68,390	42,843	23,597
MEAN	834	1,309	1,765	1,143	1,247	1,353	1,509	1,105	1,820	2,206	1,382	787
MAX	1,320	3,150	3,610	2,990	2,680	2,960	2,160	2,630	7,730	7,240	4,230	1,920
MIN	652	640	1,100	908	914	995	1,070	835	927	1,060	811	531
CFSM	1.91	3.00	4.05	2.62	2.86	3.10	3.46	2.53	4.17	5.06	3.17	1.80
IN.	2.21	3.35	4.67	3.02	2.98	3.58	3.86	2.92	4.66	5.84	3.66	2.01

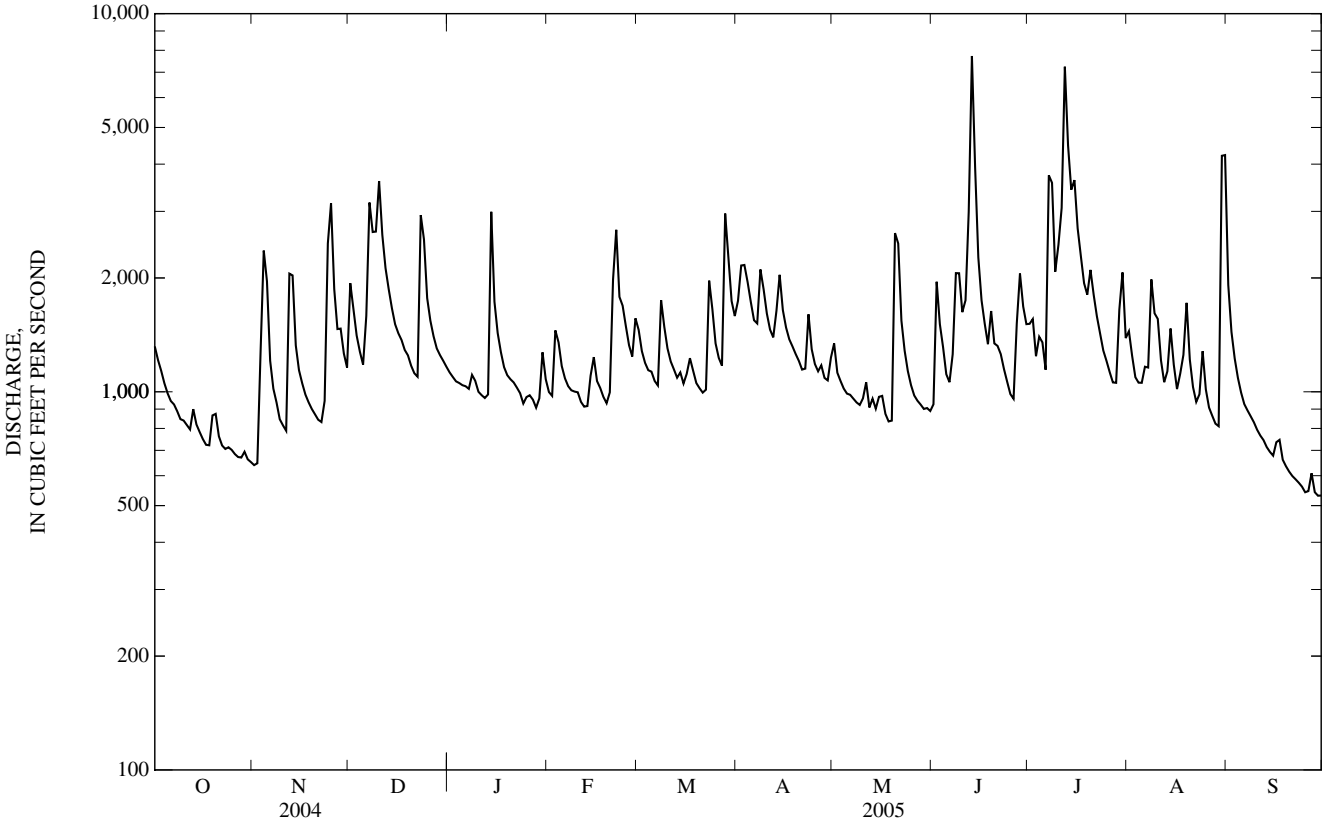
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2005,@ BY WATER YEAR (WY)

MEAN	642	809	1,045	1,337	1,555	1,699	1,508	1,176	932	724	646	621
MAX	2,557	2,169	2,231	2,570	3,718	3,372	2,746	2,573	2,061	2,206	1,670	2,817
(WY)	(1965)	(1980)	(1962)	(1946)	(1990)	(1990)	(1964)	(1976)	(1949)	(2005)	(1967)	(2004)
MIN	192	282	368	349	660	596	553	458	351	238	213	201
(WY)	(1955)	(1955)	(1966)	(1981)	(1986)	(1988)	(1986)	(2001)	(1988)	(1986)	(1986)	(1999)

03503000 LITTLE TENNESSEE RIVER AT NEEDMORE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1944 - 2005[@]	
ANNUAL TOTAL	398,067		501,103			
ANNUAL MEAN	1,088		1,373		1,058	
HIGHEST ANNUAL MEAN					1,565	1973
LOWEST ANNUAL MEAN					495	1986
HIGHEST DAILY MEAN	16,400	Sep 17	7,730	Jun 13	17,200	Oct 5, 1964
LOWEST DAILY MEAN	380	Aug 20	531	Sep 29	71	Nov 7, 1954
ANNUAL SEVEN-DAY MINIMUM	415	Aug 14	552	Sep 24	142	Oct 2, 1986
MAXIMUM PEAK FLOW			9,860	Jun 13	22,100	Oct 5, 1964
MAXIMUM PEAK STAGE			7.78	Jun 13	12.87	Oct 5, 1964
INSTANTANEOUS LOW FLOW			523*	Sep 26	52*	Nov 7, 1954
ANNUAL RUNOFF (CFSM)	2.49		3.15		2.43	
ANNUAL RUNOFF (INCHES)	33.96		42.75		32.97	
10 PERCENT EXCEEDS	1,680		2,100		1,910	
50 PERCENT EXCEEDS	840		1,140		820	
90 PERCENT EXCEEDS	465		776		364	

[@] See PERIOD OF RECORD.
* See REMARKS.



03503000 LITTLE TENNESSEE RIVER AT NEEDMORE, NC—Continued

PRECIPITATION RECORDS

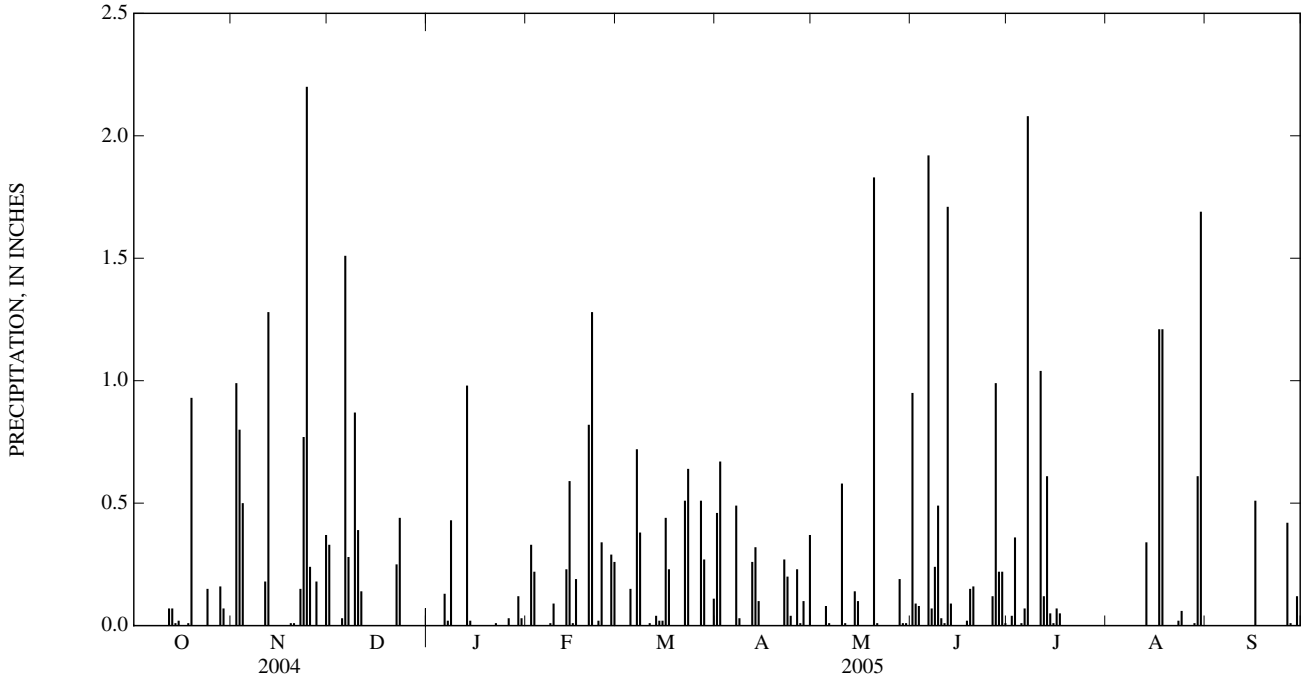
PERIOD OF RECORD.--October 1998 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Gage is operated in cooperation with Tennessee Valley Authority. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.33	0.00	0.00	0.00	0.46	0.00	0.95	0.00	---	0.00
2	0.00	0.99	0.00	0.00	0.33	0.00	0.67	0.00	0.09	0.04	---	0.00
3	0.00	0.80	0.00	0.00	0.22	0.00	0.00	0.00	0.08	0.36	---	0.00
4	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00
5	0.00	0.00	0.03	0.00	0.00	0.15	0.00	0.08	0.00	0.01	---	0.00
6	0.00	0.00	1.51	0.13	0.00	0.00	0.00	0.01	1.92	0.07	---	0.00
7	0.00	0.00	0.28	0.02	0.00	0.72	0.49	0.00	0.07	2.08	---	0.00
8	0.00	0.00	0.00	0.43	0.01	0.38	0.03	0.00	0.24	0.00	---	0.00
9	0.00	0.00	0.87	0.00	0.09	0.00	0.00	0.00	0.49	0.00	0.00	0.00
10	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.58	0.03	0.00	0.00	0.00
11	0.00	0.18	0.14	0.00	0.00	0.01	0.00	0.01	0.01	1.04	0.00	0.00
12	0.07	1.28	0.00	0.00	0.00	0.00	0.26	0.00	1.71	0.12	0.00	0.00
13	0.07	0.00	0.00	0.98	0.23	0.04	0.32	0.00	0.09	0.61	0.34	0.00
14	0.01	0.00	0.00	0.02	0.59	0.02	0.10	0.14	0.00	0.05	0.00	0.00
15	0.02	0.00	0.00	0.00	0.01	0.02	0.00	0.10	0.00	0.01	0.00	0.00
16	0.00	0.00	0.00	0.00	0.19	0.44	0.00	0.00	0.00	0.07	0.00	0.51
17	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.05	1.21	0.00
18	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	---	1.21	0.00
19	0.93	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.15	---	0.00	0.00
20	0.00	0.01	0.00	0.00	0.82	0.00	0.00	1.83	0.16	---	0.00	0.00
21	0.00	0.00	0.00	0.00	1.28	0.00	0.00	0.01	0.00	---	0.00	0.00
22	0.00	0.15	0.25	0.01	0.00	0.51	0.27	0.00	0.00	---	0.00	0.00
23	0.00	0.77	0.44	0.00	0.02	0.64	0.20	0.00	0.00	---	0.02	0.00
24	0.15	2.20	0.00	0.00	0.34	0.00	0.04	0.00	0.00	---	0.06	0.00
25	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00
26	0.00	0.00	0.00	0.03	0.00	0.00	0.23	0.00	0.12	---	0.00	0.42
27	0.00	0.18	0.00	0.00	0.29	0.51	0.01	0.00	0.99	---	0.00	0.01
28	0.16	0.00	0.00	0.00	0.26	0.27	0.10	0.19	0.22	---	0.01	0.00
29	0.07	0.00	0.00	0.12	---	0.00	0.00	0.01	0.22	---	0.61	0.12
30	0.00	0.37	0.00	0.03	---	0.00	0.37	0.01	0.01	---	1.69	0.00
31	0.00	---	0.00	0.00	---	0.11	---	0.00	---	---	0.00	---
TOTAL	1.49	7.68	4.24	1.77	4.68	4.05	3.55	2.97	7.57	---	---	1.06



03504000 NANTAHALA RIVER NEAR RAINBOW SPRINGS, NC

LOCATION.--Lat 35°07'39", long 83°37'07", Macon County, Hydrologic Unit 06010202, on right bank on Forest Service Road 437 in Nantahala National Forest, 300 ft upstream from Roaring Fork, 0.2 mi downstream of Buck Creek, 4 mi northwest of town of Rainbow Springs, and at mile 34.3.

DRAINAGE AREA.--51.9 mi^2.

PERIOD OF RECORD.--October 1940 to current year.

REVISED RECORDS.--WSP 973: 1941(M).

GAGE.--Water-stage recorder. Datum of gage is 3,072.97 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Occasional slight diurnal fluctuation at low flow caused by small ponds on tributaries upstream from station. Maximum discharge for period of record from rating curve extended above 3,000 ft^3/s on basis of slope-area measurement of peak flow. Minimum discharge for period of record also occurred Oct. 29, Nov. 1, 2, 1998.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	292	133	480	237	192	292	329	268	215	312	248	453
2	275	172	366	229	208	269	488	248	341	287	223	369
3	260	388	339	220	305	254	420	236	233	242	210	322
4	245	655	318	214	242	246	398	227	210	239	201	290
5	234	388	304	207	223	244	369	221	196	235	209	265
6	224	302	674	218	212	232	345	216	198	219	198	244
7	216	263	772	202	204	259	378	207	209	556	298	227
8	209	237	596	255	199	529	421	201	437	380	270	214
9	203	219	713	207	203	357	363	195	357	324	236	201
10	198	207	662	198	196	323	341	192	317	359	227	190
11	191	210	584	192	183	305	322	186	296	747	209	181
12	190	506	502	187	180	286	322	186	982	898	223	173
13	216	341	449	354	193	271	398	190	987	712	246	165
14	187	296	405	513	270	280	350	180	646	611	230	157
15	181	273	373	335	229	253	319	217	506	531	249	151
16	171	255	348	300	229	282	306	184	423	467	232	173
17	165	241	329	274	212	271	292	172	373	418	224	151
18	163	230	312	254	201	249	281	167	361	374	231	139
19	234	220	298	244	194	239	269	163	331	371	241	134
20	186	215	278	237	225	232	258	634	340	361	206	129
21	168	205	268	231	525	224	249	343	309	336	193	125
22	161	201	261	226	449	254	280	273	283	312	223	122
23	157	259	663	212	349	335	297	241	262	290	265	119
24	163	766	395	226	367	270	254	220	246	272	235	115
25	153	605	346	202	315	253	241	206	233	257	213	110
26	147	441	319	200	294	241	249	195	227	243	200	166
27	145	390	297	192	279	255	251	186	231	232	189	134
28	143	371	281	183	336	451	232	181	247	236	180	114
29	146	329	269	229	---	340	226	176	266	371	180	115
30	139	314	258	229	---	311	315	177	234	265	1,360	108
31	137	---	247	201	---	357	---	165	---	264	675	---
TOTAL	5,899	9,632	12,706	7,408	7,214	8,964	9,563	6,853	10,496	11,721	8,524	5,556
MEAN	190	321	410	239	258	289	319	221	350	378	275	185
MAX	292	766	772	513	525	529	488	634	987	898	1,360	453
MIN	137	133	247	183	180	224	226	163	196	219	180	108
CFSM	3.67	6.19	7.90	4.60	4.96	5.57	6.14	4.26	6.74	7.29	5.30	3.57
IN.	4.23	6.90	9.11	5.31	5.17	6.43	6.85	4.91	7.52	8.40	6.11	3.98

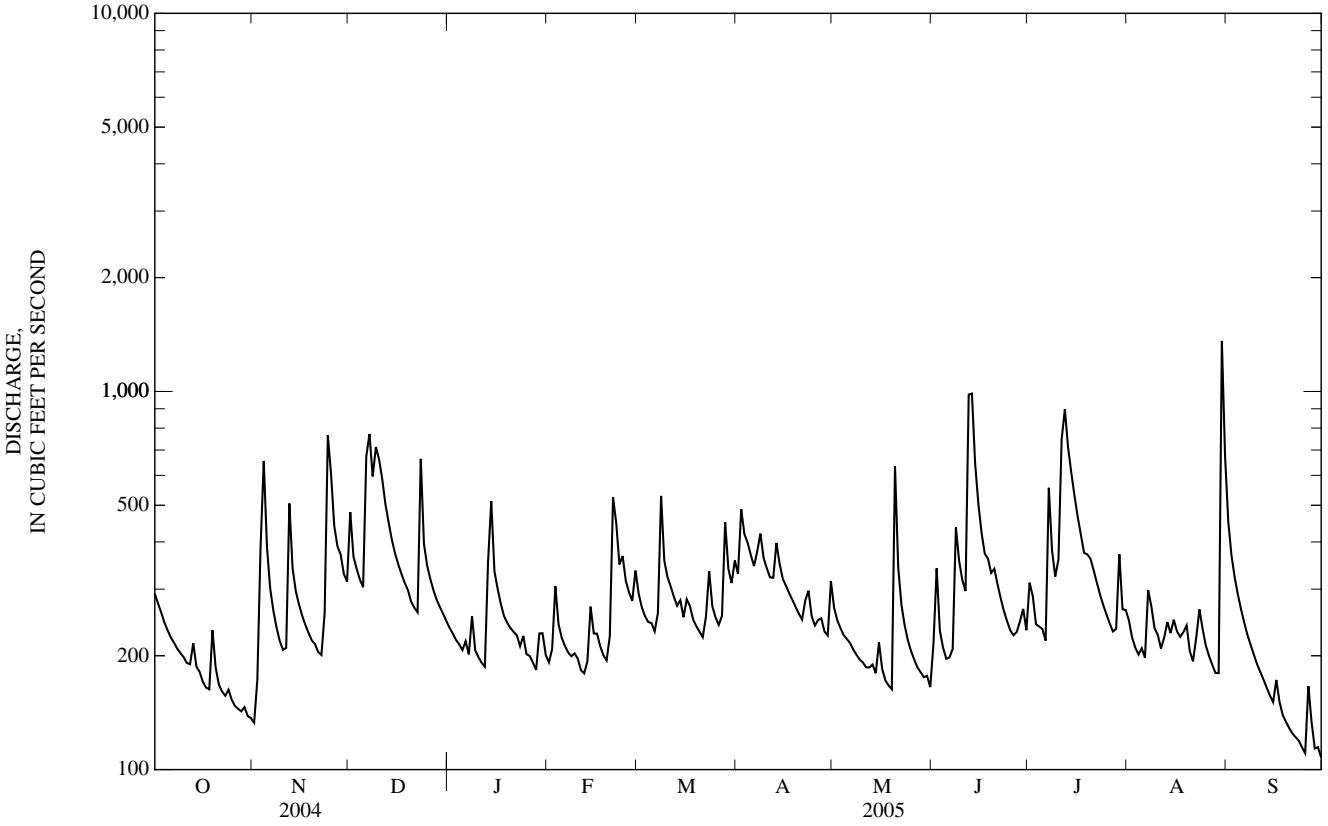
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2005, BY WATER YEAR (WY)

MEAN	117	157	224	277	320	318	278	217	175	144	124	117
MAX	415	376	474	568	657	572	493	491	485	378	327	594
(WY)	(1965)	(1978)	(1993)	(1974)	(1957)	(1979)	(1979)	(1976)	(1989)	(2005)	(1994)	(2004)
MIN	35.6	56.6	77.2	84.4	115	138	118	96.8	67.1	59.0	49.5	41.8
(WY)	(2001)	(1955)	(1959)	(1981)	(1941)	(1988)	(1986)	(1986)	(1986)	(1986)	(1986)	(1986)

03504000 NANTAHALA RIVER NEAR RAINBOW SPRINGS, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1941 - 2005	
ANNUAL TOTAL	89,882		104,536			
ANNUAL MEAN	246		286		205	
HIGHEST ANNUAL MEAN					286	2005
LOWEST ANNUAL MEAN					109	1986
HIGHEST DAILY MEAN	3,620	Sep 17	1,360	Aug 30	3,620	Sep 17, 2004
LOWEST DAILY MEAN	76	Sep 6	108	Sep 30	29	Nov 1, 1998
ANNUAL SEVEN-DAY MINIMUM	85	Aug 31	122	Sep 19	30	Oct 26, 1998
MAXIMUM PEAK FLOW			2,130	Aug 30	6,300*	Jun 16, 1949
MAXIMUM PEAK STAGE			4.84	Aug 30	9.70	Jun 16, 1949
INSTANTANEOUS LOW FLOW			103	Sep 30	29*	Oct 28, 1998
ANNUAL RUNOFF (CFSM)	4.73		5.52		3.95	
ANNUAL RUNOFF (INCHES)	64.42		74.93		53.67	
10 PERCENT EXCEEDS	387		439		371	
50 PERCENT EXCEEDS	189		246		164	
90 PERCENT EXCEEDS	113		172		68	

* See REMARKS.



03505550 NANTAHALA RIVER NEAR HEWITT, NC

LOCATION.--Lat 35°18'18", long 83°39'08", Swain County, Hydrologic Unit 06010202, on left bank, 1,655 ft downstream from bridge on US Highway 74, 0.2 mi southwest of Hewitt, and 2.5 mi northwest of Beachertown.

DRAINAGE AREA.--145 mi^2.

PERIOD OF RECORD.--December 2004 to September 2005.

GAGE.--Water-stage recorder. Elevation of gage is 1,910 ft above NVGD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Minimum discharge for current water year affected by regulation. Minimum discharge for current water year also occurred Sept. 30.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	e400	573	253	631	362	557	405	450	699	831
2	---	---	335	729	255	471	437	519	606	421	440	825
3	---	---	295	850	287	254	450	467	547	576	432	818
4	---	---	265	583	218	251	415	495	558	582	433	812
5	---	---	235	352	344	429	380	505	562	573	441	813
6	---	---	419	e780	262	420	552	482	582	812	511	815
7	---	---	775	e800	393	418	848	477	607	984	614	815
8	---	---	1,100	831	242	560	902	471	568	891	614	712
9	---	---	1,230	811	199	504	868	529	645	851	826	570
10	---	---	1,250	808	314	460	799	530	713	828	821	527
11	---	---	1,200	804	256	519	743	424	704	865	739	521
12	---	---	1,120	814	182	415	742	415	815	931	438	376
13	---	---	1,070	832	157	466	756	434	972	976	450	447
14	---	---	1,030	904	202	284	745	107	892	971	534	443
15	---	---	960	850	228	265	730	111	850	912	550	444
16	---	---	978	839	230	593	699	100	836	876	543	468
17	---	---	965	768	247	667	441	94	824	865	495	519
18	---	---	951	777	256	677	490	323	832	849	507	457
19	---	---	942	702	255	731	491	788	846	763	539	492
20	---	---	906	547	268	424	503	1,010	847	854	593	488
21	---	---	884	551	460	303	471	734	832	852	612	439
22	---	---	872	540	443	268	496	944	673	840	412	431
23	---	---	936	534	354	646	690	876	815	834	336	452
24	---	---	897	477	696	884	822	826	701	828	528	298
25	---	---	886	228	892	863	764	817	696	823	554	285
26	---	---	876	238	875	796	519	795	581	820	763	328
27	---	---	866	268	864	787	528	667	351	542	812	345
28	---	---	853	376	874	795	535	563	344	450	741	344
29	---	---	842	422	---	746	511	570	553	518	793	337
30	---	---	853	420	---	394	544	561	780	449	643	345
31	---	---	839	280	---	418	---	457	---	565	612	---
TOTAL	---	---	26,030	19,288	10,506	16,339	18,233	16,648	20,537	23,351	18,025	15,797
MEAN	---	---	840	622	375	527	608	537	685	753	581	527
MAX	---	---	1,250	904	892	884	902	1,010	972	984	826	831
MIN	---	---	235	228	157	251	362	94	344	421	336	285

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2005 - 2005, BY WATER YEAR (WY)

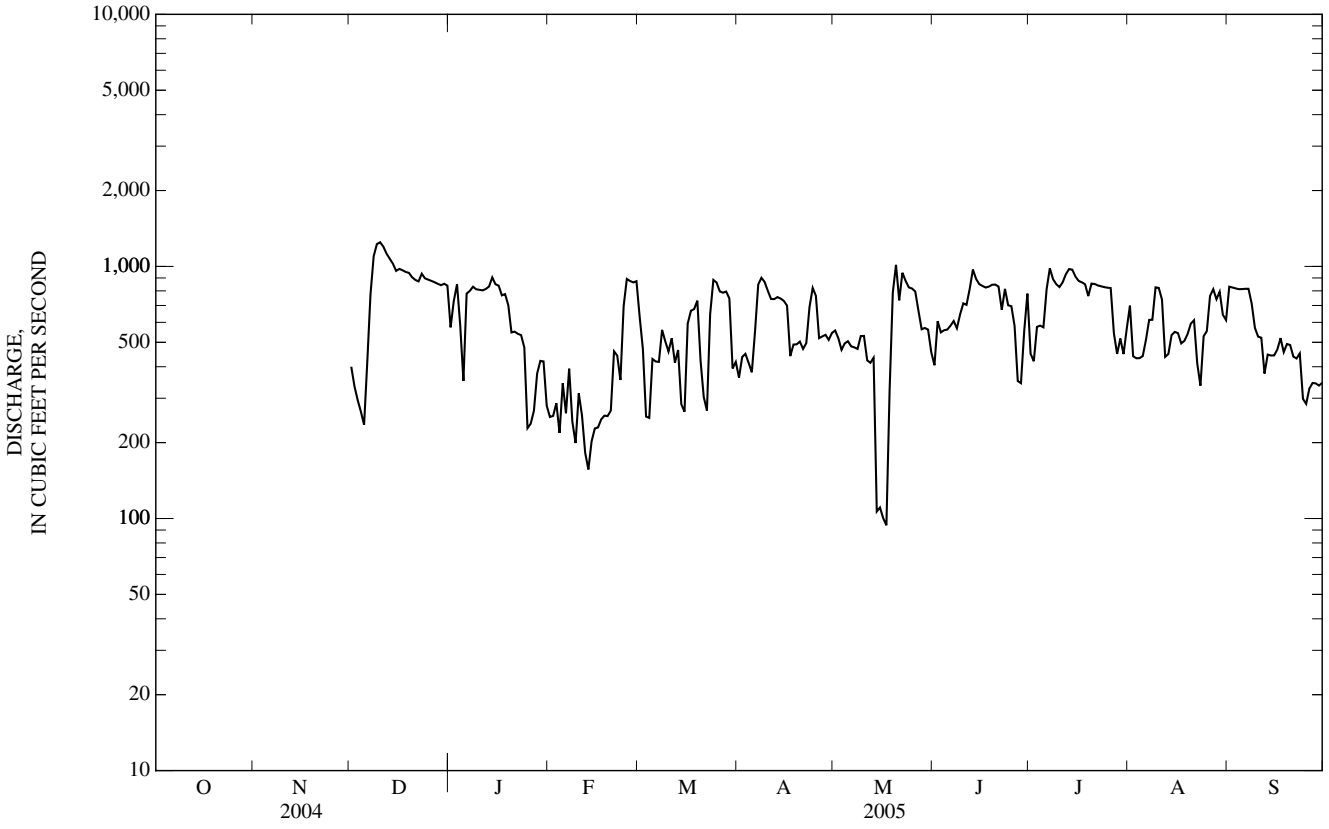
MEAN	---	---	840	622	375	527	608	537	685	753	581	527
MAX	---	---	840	622	375	527	608	537	685	753	581	527
(WY)	---	---	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)
MIN	---	---	840	622	375	527	608	537	685	753	581	527
(WY)	---	---	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)

SUMMARY STATISTICS FOR 2005 WATER YEAR

MAXIMUM PEAK FLOW	2,010	May 20
MAXIMUM PEAK STAGE	4.33	May 20
INSTANTANEOUS LOW FLOW	56*	Sep 29

* See REMARKS.
e Estimated.

03505550 NANTAHALA RIVER NEAR HEWITT, NC—Continued



03508050 TUCKASEGEE RIVER AT SECONDARY ROAD 1172 NEAR CULLOWHEE, NC

LOCATION.--Lat 35°17'16", long 83°08'38", Jackson County, Hydrologic Unit 06010203, on left bank, 10 ft downstream from bridge on Secondary Road 1172, 3.0 mi southeast of Cullowhee and at river mile 47.3.

DRAINAGE AREA.--147 mi^2.

PERIOD OF RECORD.--September 2004 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,120 ft above NGVD of 1929 (from topographic map). Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated by Cedar Cliff Lake and Bear Creek Lake. Minimum discharge for period of record and current water year affected by regulation.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	625	528	835	660	259	496	605	459	296	788	674	1,270
2	622	490	841	837	243	358	291	363	803	786	621	1,110
3	638	503	705	766	281	222	350	351	665	800	880	871
4	686	735	584	841	260	221	385	304	468	809	856	809
5	247	683	335	844	293	190	357	274	605	873	839	834
6	524	847	508	836	371	193	677	285	242	1,380	327	817
7	526	813	535	840	344	192	749	233	601	1,830	675	787
8	519	775	719	843	105	535	560	290	709	1,670	727	711
9	519	723	946	758	104	576	465	266	843	1,800	819	612
10	398	587	946	802	104	352	470	292	887	1,590	506	686
11	465	131	921	684	100	458	435	254	899	1,380	732	619
12	483	492	851	316	100	347	679	307	2,950	2,420	679	473
13	686	840	794	412	102	489	471	515	5,050	2,040	706	397
14	413	823	812	629	117	343	814	568	2,220	1,830	626	395
15	220	816	738	509	154	310	472	609	1,370	1,760	621	285
16	502	643	677	515	331	425	500	610	963	1,360	541	264
17	556	527	838	592	199	555	654	496	979	940	684	299
18	770	562	835	583	281	545	320	448	924	992	892	220
19	633	592	821	591	293	382	223	434	886	897	856	213
20	577	437	839	572	372	385	184	503	808	1,080	760	323
21	619	434	845	506	690	337	281	701	914	1,740	688	659
22	553	425	755	328	922	299	497	704	808	1,780	526	661
23	324	558	898	326	884	551	420	349	743	1,070	463	575
24	733	740	854	340	879	768	413	417	774	1,010	580	177
25	472	902	854	379	530	614	515	315	773	865	655	87
26	380	886	863	322	518	409	583	292	718	900	638	296
27	334	813	872	277	510	433	581	241	564	901	890	263
28	301	812	870	245	610	475	505	250	921	718	889	268
29	571	824	870	299	---	786	314	247	824	943	894	248
30	334	747	864	240	---	861	489	362	826	911	1,240	264
31	775	---	858	181	---	854	---	254	---	866	1,190	---
TOTAL	16,005	19,688	24,483	16,873	9,956	13,961	14,259	11,993	31,033	38,729	22,674	15,493
MEAN	516	656	790	544	356	450	475	387	1,034	1,249	731	516
MAX	775	902	946	844	922	861	814	704	5,050	2,420	1,240	1,270
MIN	220	131	335	181	100	190	184	233	242	718	327	87

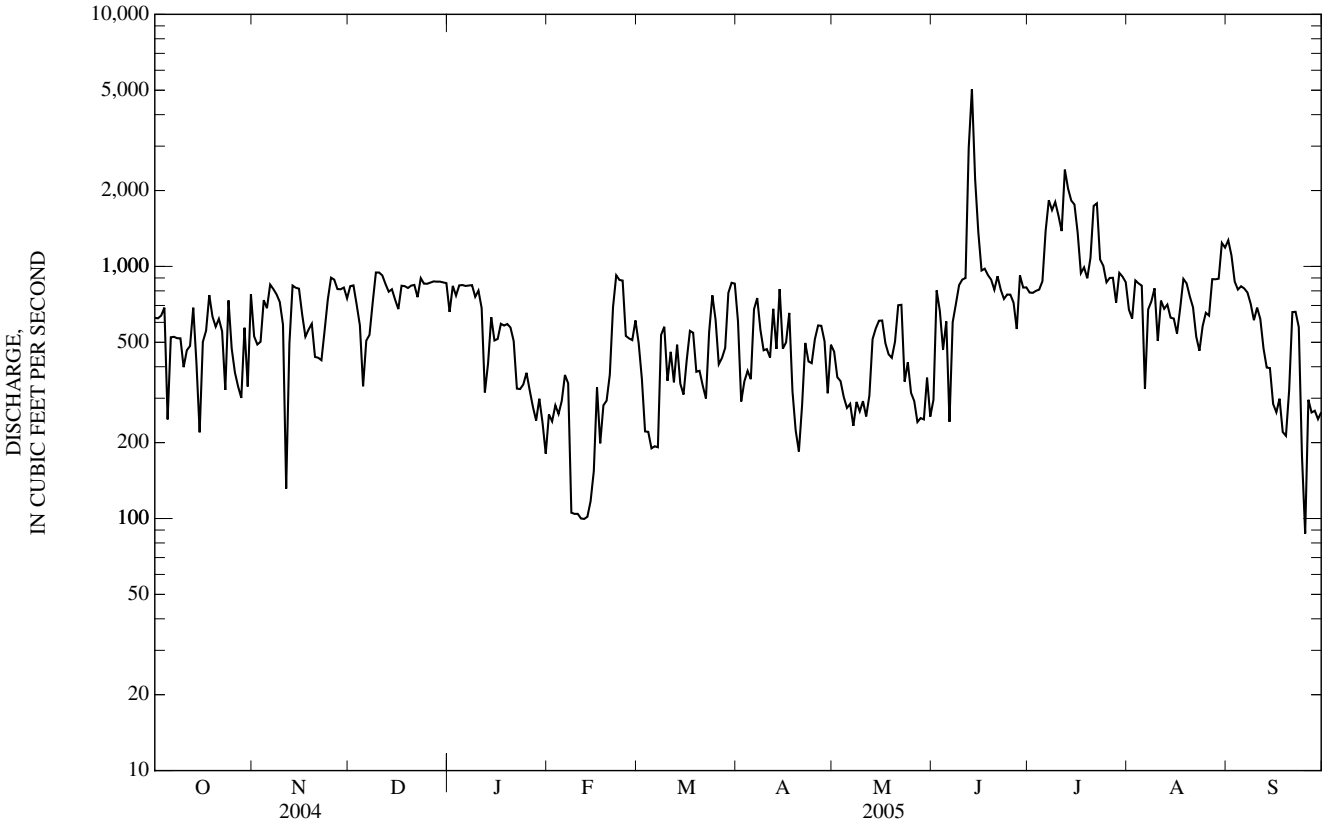
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2005, BY WATER YEAR (WY)

MEAN	516	656	790	544	356	450	475	387	1,034	1,249	731	1,239
MAX	516	656	790	544	356	450	475	387	1,034	1,249	731	1,961
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)
MIN	516	656	790	544	356	450	475	387	1,034	1,249	731	516
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)

SUMMARY STATISTICS	FOR 2005 WATER YEAR		WATER YEARS 2004 - 2005	
ANNUAL TOTAL	235,147			
ANNUAL MEAN	644		644	
HIGHEST ANNUAL MEAN			644	2005
LOWEST ANNUAL MEAN			644	2005
HIGHEST DAILY MEAN	5,050	Jun 13	7,440	Sep 8, 2004
LOWEST DAILY MEAN	87	Sep 25	87	Sep 25, 2005
ANNUAL SEVEN-DAY MINIMUM	105	Feb 8	105	Feb 8, 2005
MAXIMUM PEAK FLOW	9,740	Jun 12	11,500	Sep 8, 2004
MAXIMUM PEAK STAGE	15.86	Jun 12	17.37	Sep 8, 2004
INSTANTANEOUS LOW FLOW	73*	Apr 18	73*	Apr 18, 2005
10 PERCENT EXCEEDS	912		912	
50 PERCENT EXCEEDS	592		592	
90 PERCENT EXCEEDS	260		260	

* See REMARKS.

03508050 TUCKASEGEE RIVER AT SECONDARY ROAD 1172 NEAR CULLOWHEE, NC—Continued



03510577 TUCKASEGEE RIVER AT BARKERS CREEK, NC

LOCATION.--Lat 35°23'04", long 83°17'30", Jackson County, Hydrologic Unit 06010203, on old truss bridge near left bank, 60 ft upstream from bridge on Secondary Road 1392, 0.1 mi upstream from Barkers Creek and at river mile 27.3

DRAINAGE AREA.--360 mi^2.

PERIOD OF RECORD.--July 2004 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,920 ft above NGVD of 1929 (from topographic map). Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated by Cedar Cliff Lake and Bear Creek Lake. Minimum discharge for period of record and current water year affected by regulation.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,130	841	1,620	1,120	612	1,100	1,200	956	640	1,290	1,230	1,820
2	1,080	688	1,490	1,270	607	875	1,060	868	1,240	1,220	987	1,630
3	1,050	940	1,320	1,190	798	726	1,060	800	1,180	1,260	1,220	1,320
4	1,070	1,360	1,250	1,250	688	685	1,080	766	773	1,240	1,250	1,220
5	792	1,190	936	1,250	684	674	986	707	1,040	1,240	1,230	1,190
6	726	1,210	1,250	1,260	712	648	1,250	705	553	1,610	934	1,180
7	847	1,140	1,530	1,240	744	648	1,280	652	1,080	2,990	925	1,120
8	829	1,060	1,450	1,310	488	1,250	1,250	683	1,100	2,390	1,260	1,130
9	782	1,050	2,030	1,190	474	1,210	1,010	654	1,330	2,310	1,340	826
10	681	837	2,020	1,170	477	1,010	1,000	750	1,250	2,190	1,110	987
11	723	521	1,880	1,180	448	945	975	744	1,300	2,020	1,120	967
12	695	1,160	1,690	718	441	905	1,200	685	2,380	3,180	1,130	802
13	969	1,400	1,560	762	463	897	1,370	834	6,900	2,880	1,310	676
14	812	1,250	1,500	1,710	573	930	1,720	954	3,180	2,510	1,170	669
15	393	1,190	1,500	1,120	580	761	1,260	1,080	2,290	2,360	1,080	552
16	652	1,030	1,200	1,050	679	916	1,120	1,150	1,550	2,100	974	609
17	772	927	1,440	1,040	583	966	1,250	763	1,500	1,550	970	601
18	983	839	1,420	1,050	636	1,140	1,050	835	1,530	1,480	1,330	476
19	995	879	1,390	1,020	635	840	747	791	1,520	1,420	1,360	473
20	849	770	1,350	1,020	778	828	746	1,350	1,630	1,700	1,180	500
21	824	716	1,360	945	1,470	789	713	1,300	1,520	2,130	1,040	878
22	808	706	1,290	748	1,730	772	1,010	1,210	1,420	2,480	1,060	898
23	615	870	1,680	717	1,500	1,020	1,030	915	1,190	1,570	976	890
24	859	1,970	1,490	713	1,520	1,270	949	753	1,210	1,500	953	535
25	738	2,050	1,420	763	1,220	1,190	993	770	1,190	1,310	1,000	308
26	673	1,690	1,400	709	1,030	887	1,070	666	1,180	1,310	870	386
27	538	1,540	1,380	679	1,000	905	1,090	625	980	1,320	1,200	550
28	451	1,480	1,360	572	1,160	1,210	987	640	1,380	1,120	1,220	493
29	863	1,420	1,350	701	---	1,350	796	715	1,490	1,510	1,230	503
30	536	1,330	1,330	663	---	1,410	1,040	640	1,330	1,390	2,610	482
31	860	---	1,320	612	---	1,410	---	573	---	1,330	1,950	---
TOTAL	24,595	34,054	45,206	30,742	22,730	30,167	32,292	25,534	46,856	55,910	37,219	24,671
MEAN	793	1,135	1,458	992	812	973	1,076	824	1,562	1,804	1,201	822
MAX	1,130	2,050	2,030	1,710	1,730	1,410	1,720	1,350	6,900	3,180	2,610	1,820
MIN	393	521	936	572	441	648	713	573	553	1,120	870	308

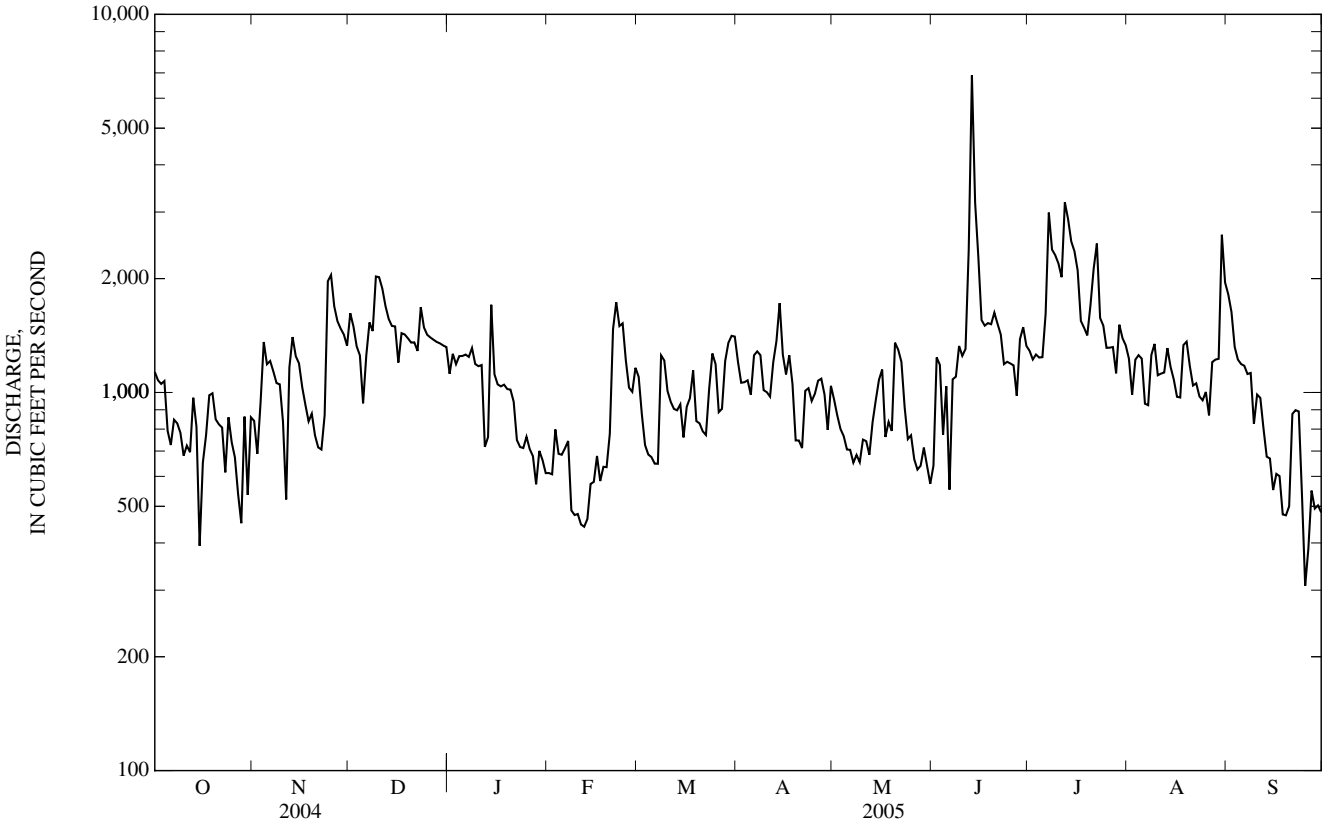
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2005, BY WATER YEAR (WY)

MEAN	793	1,135	1,458	992	812	973	1,076	824	1,562	1,192	882	1,851
MAX	793	1,135	1,458	992	812	973	1,076	824	1,562	1,804	1,201	2,879
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)
MIN	793	1,135	1,458	992	812	973	1,076	824	1,562	580	564	822
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)	(2004)	(2005)

SUMMARY STATISTICS	FOR 2005 WATER YEAR		WATER YEARS 2004 - 2005	
ANNUAL TOTAL	409,976			
ANNUAL MEAN	1,123		1,123	
HIGHEST ANNUAL MEAN			1,123	2005
LOWEST ANNUAL MEAN			1,123	2005
HIGHEST DAILY MEAN	6,900	Jun 13	12,600	Sep 17, 2004
LOWEST DAILY MEAN	308	Sep 25	252	Aug 23, 2004
ANNUAL SEVEN-DAY MINIMUM	465	Sep 24	337	Aug 14, 2004
MAXIMUM PEAK FLOW	11,200	Jun 13	15,800	Sep 17, 2004
MAXIMUM PEAK STAGE	10.90	Jun 13	13.26	Sep 17, 2004
INSTANTANEOUS LOW FLOW	295*	Sep 26	169*	Aug 23, 2004
10 PERCENT EXCEEDS	1,560		1,560	
50 PERCENT EXCEEDS	1,060		1,060	
90 PERCENT EXCEEDS	636		636	

* See REMARKS.

03510577 TUCKASEGEE RIVER AT BARKERS CREEK, NC—Continued



03512000 OCONALUFTEE RIVER AT BIRDTOWN, NC

LOCATION.--Lat 35°27'41", long 83°21'13", Swain County, Hydrologic Unit 06010203, in Cherokee Indian Reservation on left bank 1500 ft upstream from bridge on Secondary Road 1359, 0.5 mi south of Birdtown, 0.6 mi downstream of Adams Creek, 0.6 mi upstream from Goose Creek, 2.2 mi southwest of Cherokee, and at mile 3.1.

DRAINAGE AREA.--184 mi^2.

PERIOD OF RECORD.--July 1945 to September 1946, July 1948 to current year.

GAGE.--Water-stage recorder and crest-stage gages. Datum of gage is 1,843.30 ft above NGVD of 1929. Prior to Oct. 1, 1946, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Maximum gage height for period of record from floodmarks. Minimum discharge for period of record also occurred Nov. 9, 1987. Minimum discharge for current water year also occurred Sept. 26.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of Nov. 19, 1906, and Mar. 27, 1913, reached stages of 18 and 14.5 ft, respectively, from studies by Tennessee Valley Authority; discharge not determined.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	440	315	1,900	543	394	649	635	717	392	426	441	567
2	414	315	1,190	547	393	580	1,660	627	507	375	365	474
3	393	444	982	536	574	548	1,120	577	409	402	350	419
4	366	1,280	846	531	473	528	1,030	540	404	381	355	378
5	349	871	743	519	446	549	1,010	516	370	467	327	353
6	334	626	877	544	439	510	971	499	407	453	343	328
7	322	530	1,330	529	435	520	926	470	454	1,920	358	309
8	310	470	1,110	783	440	1,200	838	452	406	1,130	416	294
9	302	424	1,860	638	452	871	746	436	401	727	379	278
10	296	395	1,910	579	470	770	678	539	415	598	390	264
11	285	387	1,570	550	423	715	630	499	447	618	322	254
12	281	821	1,270	529	406	665	628	452	527	626	292	245
13	332	695	1,120	608	430	652	889	446	1,050	617	352	238
14	300	570	993	1,450	567	705	1,030	436	652	616	454	231
15	289	515	894	815	534	652	819	474	539	564	323	225
16	270	480	819	708	555	699	737	454	474	562	319	275
17	257	452	763	628	576	717	681	407	432	524	306	249
18	255	427	716	569	501	638	641	387	460	637	593	221
19	463	405	686	548	472	602	605	372	456	805	596	211
20	378	397	633	530	511	573	572	1,120	710	709	431	204
21	314	372	612	516	1,630	549	546	746	612	614	375	199
22	291	359	595	497	1,310	558	566	590	466	551	374	195
23	278	548	1,120	459	962	992	630	532	439	483	344	190
24	314	2,080	850	457	943	748	562	491	402	437	329	186
25	289	1,890	733	440	810	668	519	462	378	406	321	182
26	272	1,240	681	450	711	631	528	437	375	379	301	268
27	288	988	634	424	652	634	577	418	386	355	290	297
28	308	917	605	398	723	975	532	413	437	393	301	209
29	428	762	585	428	---	793	622	393	427	472	336	217
30	392	709	569	445	---	715	737	380	415	372	1,090	214
31	339	---	555	408	---	669	---	366	---	412	831	---
TOTAL	10,149	20,684	29,751	17,606	17,232	21,275	22,665	15,648	14,249	18,031	12,604	8,174
MEAN	327	689	960	568	615	686	756	505	475	582	407	272
MAX	463	2,080	1,910	1,450	1,630	1,200	1,660	1,120	1,050	1,920	1,090	567
MIN	255	315	555	398	393	510	519	366	370	355	290	182
CFSM	1.78	3.75	5.22	3.09	3.34	3.73	4.11	2.74	2.58	3.16	2.21	1.48
IN.	2.05	4.18	6.01	3.56	3.48	4.30	4.58	3.16	2.88	3.65	2.55	1.65

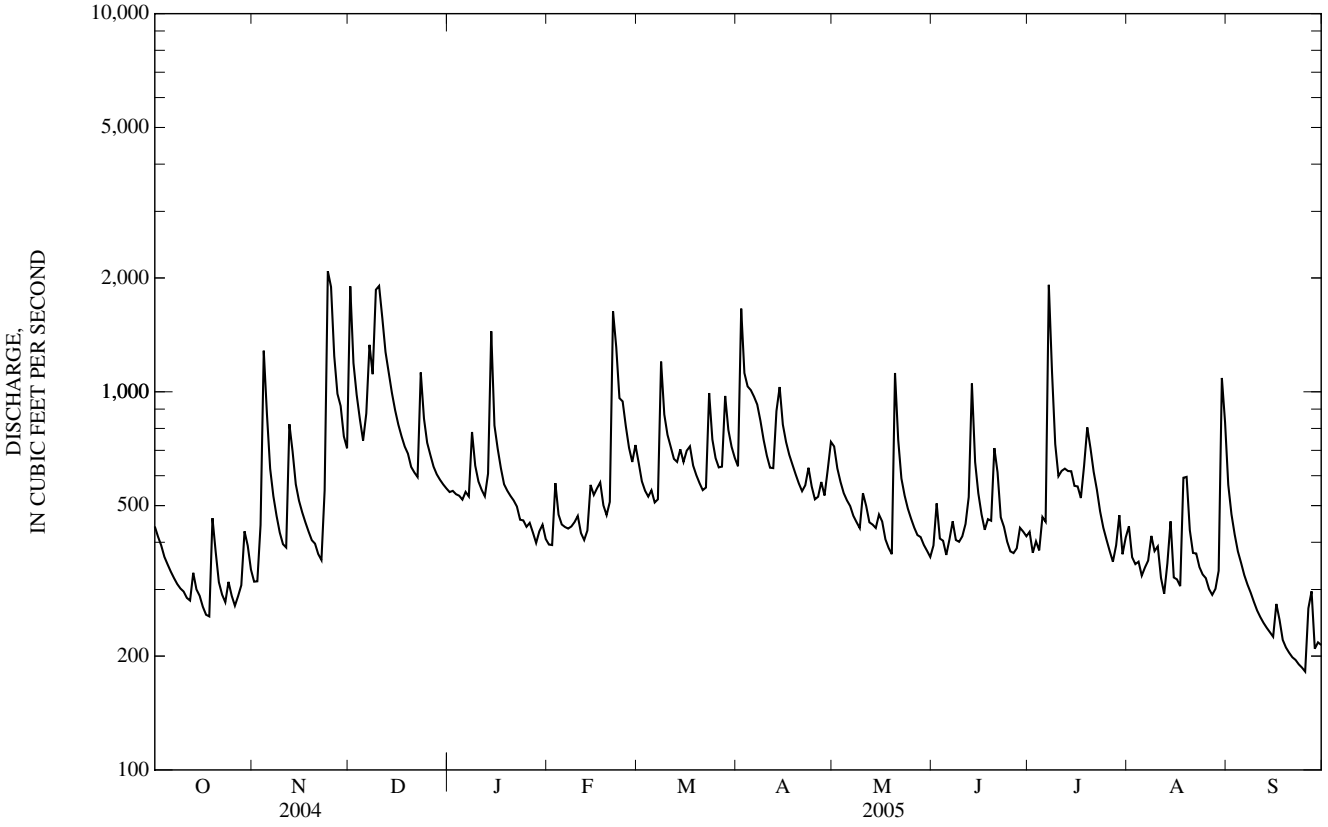
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2005,@ BY WATER YEAR (WY)

MEAN	261	387	579	707	798	865	718	544	426	386	328	270
MAX	645	777	1,266	1,428	1,700	1,714	1,315	1,202	1,136	938	733	968
(WY)	(1990)	(1958)	(1962)	(1974)	(1990)	(1963)	(1994)	(1984)	(1989)	(1989)	(1994)	(2004)
MIN	94.5	125	162	170	392	330	277	239	175	169	152	121
(WY)	(1955)	(1988)	(1966)	(1981)	(1978)	(1988)	(1986)	(1986)	(1988)	(1952)	(2002)	(1954)

03512000 OCONALUFTEE RIVER AT BIRDTOWN, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1945 - 2005[@]	
ANNUAL TOTAL	210,388		208,068			
ANNUAL MEAN	575		570		521	
HIGHEST ANNUAL MEAN					771	1994
LOWEST ANNUAL MEAN					274	1986
HIGHEST DAILY MEAN	5,900	Sep 17	2,080	Nov 24	8,470	Mar 12, 1963
LOWEST DAILY MEAN	196	Sep 6	182	Sep 25	80	Nov 8, 1987
ANNUAL SEVEN-DAY MINIMUM	224	Aug 31	195	Sep 19	82	Oct 16, 1954
MAXIMUM PEAK FLOW			3,700	Dec 9	15,900	Dec 30, 1969
MAXIMUM PEAK STAGE			4.90	Dec 9	12.46*	Dec 30, 1969
INSTANTANEOUS LOW FLOW			176*	Sep 25	79*	Nov 8, 1987
ANNUAL RUNOFF (CFSM)	3.12		3.10		2.83	
ANNUAL RUNOFF (INCHES)	42.53		42.07		38.47	
10 PERCENT EXCEEDS	921		933		942	
50 PERCENT EXCEEDS	460		499		397	
90 PERCENT EXCEEDS	282		297		169	

[@] See PERIOD OF RECORD.
* See REMARKS.



03513000 TUCKASEGEE RIVER AT BRYSON CITY, NC

LOCATION.--Lat 35°25'39", long 83°26'49", Swain County, Hydrologic Unit 06010203, on left bank 400 ft downstream of bridge on Secondary Road 1364, Everett Street, in Bryson City, 0.6 mi downstream of Deep Creek, and at mile 12.6.

DRAINAGE AREA.--655 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1897 to December 1981, October 1983 to January 1995, April 1996 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 523: 1916, 1918-20. WSP 823: Drainage area. WSP 1306: 1898-1913. WSP 1336: 1907, 1915(M), 1916-20, 1921-29(M), 1933-34(M).

GAGE.--Water-stage recorder. Datum of gage is 1,714.54 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Nov. 7, 1897, to Feb. 2, 1914, and May 18, 1920, to June 27, 1927, nonrecording gage at bridge 400 ft upstream at datum of 1,716.54 ft. Feb. 3, 1914, to May 17, 1920, water-stage recorder at site 200 ft upstream at datum of 1,716.54 ft. June 28, 1927, to Sept. 30, 1960, water-stage recorder at present site at datum of 1,716.54 ft. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Considerable diurnal fluctuation caused by power plants upstream from station. Flow regulated by Thorpe Reservoir, Cedar Cliff Lake, Bear Creek Lake, Tennessee Creek project lakes (stations 03507111, 03507131), and two small reservoirs with a combined capacity of 250 ft^3/s-day. Maximum discharge for period of record, from rating curve extended above 28,000 ft^3/s on basis of slope-area measurement of peak flow. Minimum discharge for period of record and minimum daily discharge for period of record also occurred Sept. 10, 1925, caused by filling reservoir on Oconaluftee River. Minimum daily discharge during normal regulation: 186 ft^3/s, Oct. 13, 1925.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 1840, Mar. 6, 1867, and June 1876 reached stages of 22, 19, and 19 ft, respectively, present site and datum, from studies by Tennessee Valley Authority; discharge not determined. The flood in May 1840 exceeded all other observed floods at this location.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,870	1,450	4,310	1,930	1,220	2,260	2,360	2,140	1,310	1,820	1,940	2,790
2	1,780	1,240	3,310	2,060	1,270	1,950	3,640	1,860	2,040	1,660	1,460	2,460
3	1,730	1,730	2,830	2,000	1,720	1,720	2,930	1,720	1,960	1,720	1,570	1,970
4	1,710	3,320	2,550	2,020	1,470	1,600	2,770	1,660	1,500	1,710	1,740	1,800
5	1,480	2,690	2,120	2,020	1,400	1,610	2,670	1,560	1,720	1,750	1,630	1,700
6	1,240	2,300	2,570	2,060	1,370	1,520	2,820	1,530	1,330	2,050	1,500	1,680
7	1,430	2,080	3,660	2,030	1,490	1,520	2,820	1,480	1,740	5,790	1,260	1,580
8	1,420	1,910	3,210	2,420	1,260	3,290	2,830	1,390	1,840	4,340	1,850	1,550
9	1,370	1,820	4,800	2,140	1,190	2,700	2,210	1,410	2,070	3,550	1,780	1,240
10	1,260	1,540	5,110	2,010	1,210	2,410	2,180	1,520	2,000	3,320	1,780	1,390
11	1,300	1,310	4,440	2,010	1,140	2,100	2,100	1,650	2,100	2,900	1,460	1,350
12	1,260	2,420	3,750	1,530	1,110	2,100	2,190	1,420	2,550	4,410	1,510	1,180
13	1,620	2,660	3,330	1,570	1,160	1,940	2,830	1,500	9,080	4,170	1,650	1,050
14	1,410	2,280	3,010	3,840	1,510	2,180	3,480	1,630	4,420	3,720	2,000	1,010
15	1,020	2,140	2,830	2,380	1,490	1,840	2,650	1,880	3,460	3,400	1,500	966
16	1,100	1,900	2,420	2,160	1,510	1,980	2,360	2,000	2,170	3,190	1,410	980
17	1,290	1,750	2,590	2,000	1,560	2,130	2,400	1,440	2,030	2,330	1,350	1,040
18	1,520	1,600	2,500	1,970	1,460	2,300	2,210	1,550	2,000	2,240	2,060	838
19	1,850	1,620	2,420	1,900	1,420	1,850	1,730	1,440	2,160	2,590	2,290	802
20	1,600	1,500	2,310	1,860	1,600	1,790	1,700	3,030	2,610	2,590	1,770	777
21	1,400	1,410	2,270	1,830	3,970	1,720	1,610	2,580	2,450	2,940	1,540	1,080
22	1,370	1,380	2,190	1,560	4,080	1,690	1,890	2,230	2,110	3,550	1,350	1,190
23	1,220	1,860	3,260	1,450	3,180	2,570	2,120	1,830	1,690	2,340	1,630	1,180
24	1,400	5,310	2,730	1,390	3,150	2,550	1,900	1,560	1,670	2,110	1,360	941
25	1,370	5,210	2,490	1,480	2,690	2,360	1,830	1,560	1,620	1,860	1,470	622
26	1,190	3,730	2,400	1,430	2,200	1,960	1,970	1,380	1,590	1,790	1,250	740
27	1,080	3,130	2,320	1,370	2,120	1,930	2,060	1,370	1,460	1,760	1,560	1,050
28	1,010	2,930	2,260	1,210	2,380	2,920	1,880	1,360	1,760	1,680	1,630	824
29	1,550	2,640	2,220	1,350	---	2,650	1,880	1,390	2,150	2,090	1,680	822
30	1,240	2,480	2,190	1,410	---	2,650	2,100	1,300	1,820	1,960	4,230	813
31	1,410	---	2,150	1,300	---	2,580	---	1,220	---	1,870	3,460	---
TOTAL	43,500	69,340	90,550	57,690	51,330	66,370	70,120	51,590	68,410	83,200	54,670	37,415
MEAN	1,403	2,311	2,921	1,861	1,833	2,141	2,337	1,664	2,280	2,684	1,764	1,247
MAX	1,870	5,310	5,110	3,840	4,080	3,290	3,640	3,030	9,080	5,790	4,230	2,790
MIN	1,010	1,240	2,120	1,210	1,110	1,520	1,610	1,220	1,310	1,660	1,250	622

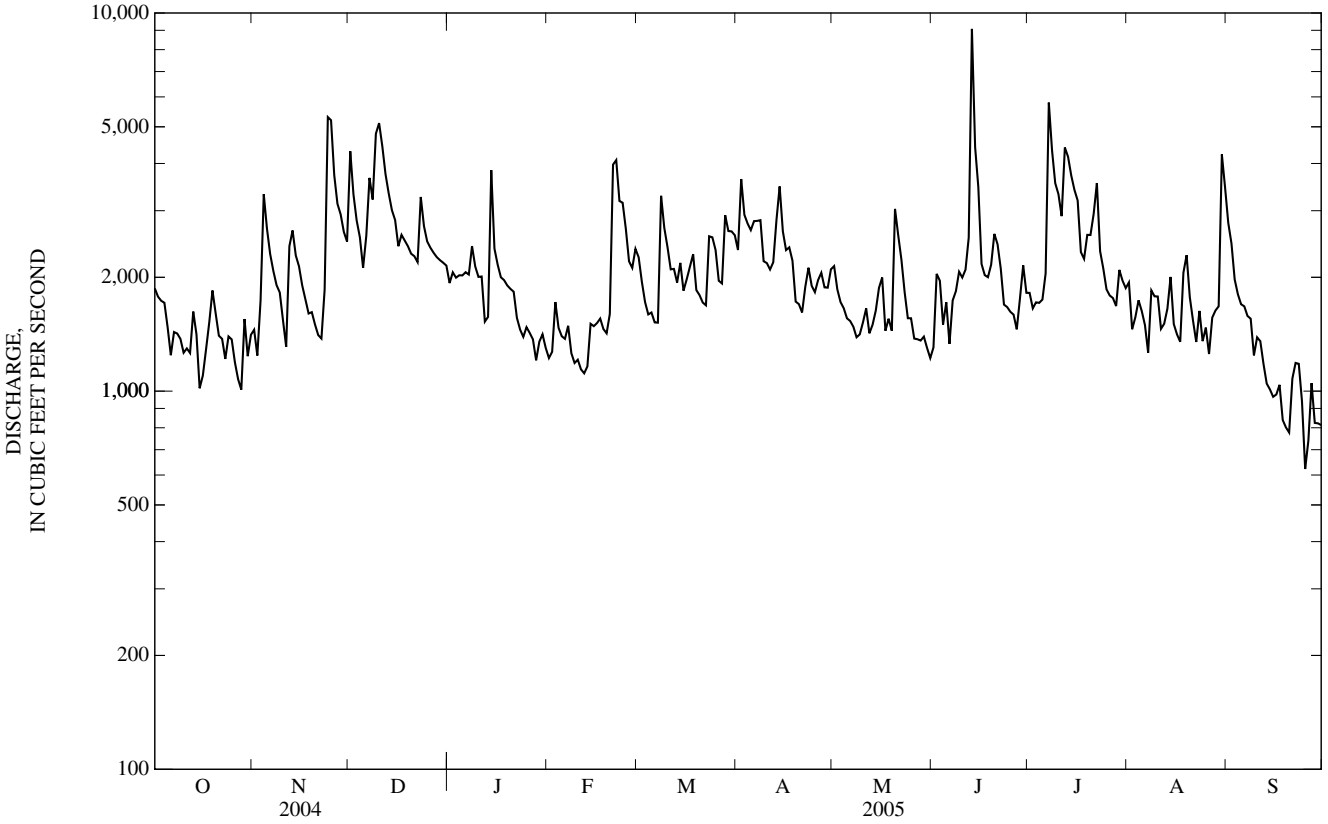
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1898 - 2005, @BY WATER YEAR (WY)

MEAN	926	1,077	1,603	2,000	2,269	2,557	2,223	1,757	1,406	1,258	1,156	992
MAX	3,654	2,899	3,704	4,819	5,847	6,504	4,843	3,988	3,199	3,379	4,251	4,561
(WY)	(1899)	(1907)	(1933)	(1937)	(1899)	(1899)	(1920)	(2003)	(1909)	(1916)	(1901)	(2004)
MIN	347	378	457	599	736	926	841	602	531	503	220	195
(WY)	(1932)	(1932)	(1940)	(1940)	(1941)	(1988)	(1986)	(1941)	(1941)	(1925)	(1925)	(1925)

03513000 TUCKASEGEE RIVER AT BRYSON CITY, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1898 - 2005[@]	
ANNUAL TOTAL	696,512		744,185			
ANNUAL MEAN	1,903		2,039		1,598	
HIGHEST ANNUAL MEAN					2,576	1899
LOWEST ANNUAL MEAN					879	1986
HIGHEST DAILY MEAN	23,500	Sep 17	9,080	Jun 13	28,000	Mar 4, 1917
LOWEST DAILY MEAN	684	Jun 21	622	Sep 25	31*	Sep 9, 1925
ANNUAL SEVEN-DAY MINIMUM	774	Aug 14	830	Sep 24	97	Sep 4, 1925
MAXIMUM PEAK FLOW			13,400	Jun 13	61,600*	Aug 30, 1940
MAXIMUM PEAK STAGE			8.38	Jun 13	15.96	Aug 30, 1940
INSTANTANEOUS LOW FLOW			592	Sep 26	27*	Sep 10, 1925
10 PERCENT EXCEEDS	3,140		3,160		2,840	
50 PERCENT EXCEEDS	1,480		1,840		1,270	
90 PERCENT EXCEEDS	975		1,240		610	

[@] See PERIOD OF RECORD.
* See REMARKS.



03513000 TUCKASEGEE RIVER AT BRYSON CITY, NC—Continued

PRECIPITATION RECORDS

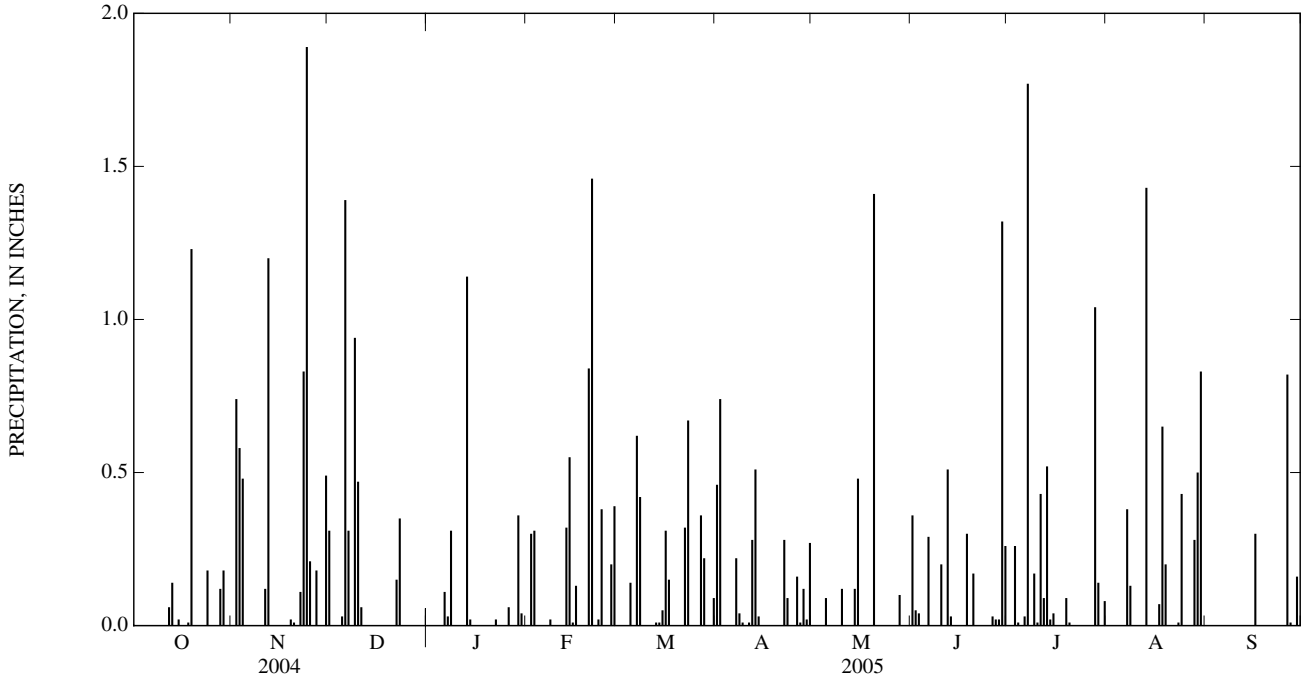
PERIOD OF RECORD.--October 1999 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Gage is operated in cooperation with Tennessee Valley Authority and the North Carolina Department of Environment and Natural Resources. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.31	0.00	0.00	0.00	0.46	0.00	0.36	0.00	0.00	0.00
2	0.00	0.74	0.00	0.00	0.30	0.00	0.74	0.00	0.05	0.00	0.00	0.00
3	0.00	0.58	0.00	0.00	0.31	0.00	0.00	0.00	0.04	0.26	0.00	0.00
4	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
5	0.00	0.00	0.03	0.00	0.00	0.14	0.00	0.09	0.00	0.00	0.00	0.00
6	0.00	0.00	1.39	0.11	0.00	0.00	0.00	0.00	0.29	0.03	0.00	0.00
7	0.00	0.00	0.31	0.03	0.00	0.62	0.22	0.00	0.00	1.77	0.38	0.00
8	0.00	0.00	0.00	0.31	0.02	0.42	0.04	0.00	0.00	0.00	0.13	0.00
9	0.00	0.00	0.94	0.00	0.00	0.00	0.01	0.00	0.00	0.17	0.00	0.00
10	0.00	0.00	0.47	0.00	0.00	0.00	0.00	0.12	0.20	0.01	0.00	0.00
11	0.00	0.12	0.06	0.00	0.00	0.00	0.01	0.00	0.00	0.43	0.00	0.00
12	0.06	1.20	0.00	0.00	0.00	0.00	0.28	0.00	0.51	0.09	0.00	0.00
13	0.14	0.00	0.00	1.14	0.32	0.01	0.51	0.00	0.03	0.52	1.43	0.00
14	0.00	0.00	0.00	0.02	0.55	0.01	0.03	0.12	0.00	0.02	0.00	0.00
15	0.02	0.00	0.00	0.00	0.01	0.05	0.00	0.48	0.00	0.04	0.00	0.00
16	0.00	0.00	0.00	0.00	0.13	0.31	0.00	0.00	0.00	0.00	0.00	0.30
17	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.07	0.00
18	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.65	0.00
19	1.23	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.20	0.00
20	0.00	0.01	0.00	0.00	0.84	0.00	0.00	1.41	0.17	0.01	0.00	0.00
21	0.00	0.00	0.00	0.00	1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.11	0.15	0.02	0.00	0.32	0.28	0.00	0.00	0.00	0.00	0.00
23	0.00	0.83	0.35	0.00	0.02	0.67	0.09	0.00	0.00	0.00	0.01	0.00
24	0.18	1.89	0.00	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.43	0.00
25	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.06	0.00	0.00	0.16	0.00	0.03	0.00	0.00	0.82
27	0.00	0.18	0.00	0.00	0.20	0.36	0.01	0.00	0.02	0.00	0.00	0.01
28	0.12	0.00	0.00	0.00	0.39	0.22	0.12	0.10	0.02	1.04	0.28	0.00
29	0.18	0.00	0.00	0.36	---	0.00	0.02	0.00	1.32	0.14	0.50	0.16
30	0.00	0.49	0.00	0.04	---	0.00	0.27	0.00	0.26	0.00	0.83	0.00
31	0.00	---	0.00	0.00	---	0.09	---	0.00	---	0.08	0.00	---
TOTAL	1.94	6.86	4.01	2.09	4.93	3.37	3.25	2.32	3.60	4.71	4.91	1.29



0351706800 CHEOAH RIVER NEAR BEARPEN GAP NEAR TAPOCO, NC

LOCATION.--Lat 35°26'49", long 83°56'22", Graham County, Hydrologic Unit 06010204, on right bank, 93 ft downstream of U.S. Forest Service bridge number 62 on Slickrock Road, 1.7 mi upstream of mouth, and 1.2 mi east southeast of Tapoco.

DRAINAGE AREA.--206 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1999 to current year.

REVISED RECORDS.--WDR NC-04-1: 2002(M).

GAGE.--Water-stage recorder. Elevation of gage is 1,260 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Considerable regulation at times caused by Santeetlah Dam, 10.3 mi upstream. Water from Santeetlah Lake, 10.3 mi upstream, is diverted to hydro powerplant on the Little Tennessee River, which bypasses gage. Maximum discharge for period of record, from rating curve extended above 5,000 ft^3/s on basis of step-backwater computation of peak flow. Minimum discharge for period of record also occurred Sept. 17, 20, 2000.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	47	2,240	106	87	129	146	104	90	69	68	74
2	72	49	228	103	90	115	318	91	111	67	65	140
3	71	94	185	100	140	109	286	86	102	74	58	119
4	69	190	162	98	111	105	234	83	89	72	55	102
5	66	104	147	96	101	104	202	87	78	107	53	97
6	57	79	725	102	95	98	175	88	127	82	53	95
7	55	71	3,720	97	90	101	169	81	143	343	74	93
8	53	65	1,710	148	90	272	177	77	125	177	73	93
9	52	61	3,610	110	87	173	150	75	120	117	58	92
10	53	59	2,040	103	84	146	137	79	143	100	56	90
11	51	68	2,790	100	80	133	130	76	140	113	52	88
12	54	122	582	96	79	123	129	71	153	155	49	88
13	70	101	914	144	85	117	129	69	167	130	60	87
14	56	84	866	262	133	112	120	68	127	121	69	85
15	53	76	482	165	109	104	111	95	104	108	51	85
16	51	72	181	138	103	111	106	79	91	99	47	107
17	49	69	168	121	94	131	102	70	83	90	46	759
18	49	66	158	110	88	114	99	67	77	82	57	189
19	96	64	151	107	85	106	97	65	75	122	66	75
20	66	64	139	104	115	102	94	499	150	104	49	73
21	56	61	136	101	396	98	91	220	113	81	45	72
22	53	61	134	98	280	107	100	142	84	74	44	70
23	51	141	228	91	186	259	105	116	75	68	47	69
24	54	878	166	e89	171	173	103	101	69	64	43	68
25	51	447	146	88	141	144	92	91	66	62	43	67
26	49	247	135	91	126	129	91	85	63	59	42	69
27	49	187	125	85	119	123	98	81	62	57	41	78
28	50	161	119	80	144	289	90	80	119	134	41	69
29	53	134	115	99	---	193	92	76	95	120	59	69
30	50	124	112	104	---	162	102	74	74	78	103	69
31	48	---	109	90	---	155	---	71	---	70	56	---
TOTAL	1,784	4,046	22,723	3,426	3,509	4,337	4,075	3,147	3,115	3,199	1,723	3,331
MEAN	57.5	135	733	111	125	140	136	102	104	103	55.6	111
MAX	96	878	3,720	262	396	289	318	499	167	343	103	759
MIN	48	47	109	80	79	98	90	65	62	57	41	67

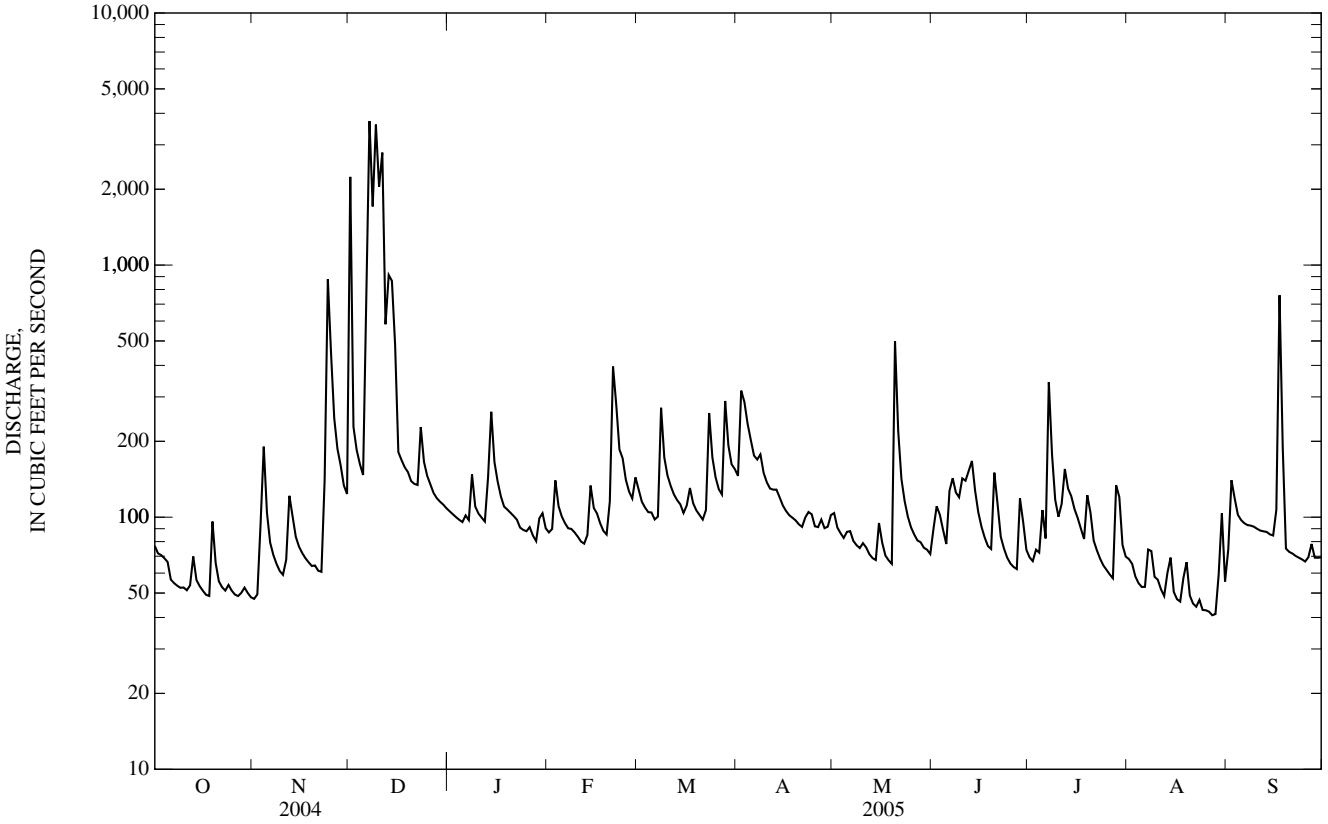
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2005, BY WATER YEAR (WY)

MEAN	32.6	66.8	188	172	127	118	134	240	77.9	83.7	49.1	72.5
MAX	57.5	135	733	589	216	149	229	889	113	131	81.5	165
(WY)	(2005)	(2005)	(2005)	(2002)	(2003)	(2002)	(2002)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	12.1	26.7	31.5	65.8	77.3	79.7	64.3	53.2	52.5	41.0	22.7	19.9
(WY)	(2001)	(2000)	(2000)	(2000)	(2000)	(2000)	(2001)	(2001)	(2002)	(2002)	(2002)	(2000)

0351706800 CHEOAH RIVER NEAR BEARPEN GAP NEAR TAPOCO, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2000 - 2005	
ANNUAL TOTAL	56,831		58,415			
ANNUAL MEAN	155		160		114	
HIGHEST ANNUAL MEAN					176	2003
LOWEST ANNUAL MEAN					54.9	2001
HIGHEST DAILY MEAN	3,720	Dec 7	3,720	Dec 7	8,350	May 6, 2003
LOWEST DAILY MEAN	38	Sep 6	41	Aug 27	9.1	Sep 17, 2000
ANNUAL SEVEN-DAY MINIMUM	43	Aug 31	43	Aug 22	9.8	Sep 14, 2000
MAXIMUM PEAK FLOW			6,370	Dec 9	15,000*	May 6, 2003
MAXIMUM PEAK STAGE			8.23	Dec 9	13.30	May 6, 2003
INSTANTANEOUS LOW FLOW			37	Aug 28	8.8*	Sep 16, 2000
10 PERCENT EXCEEDS	172		183		163	
50 PERCENT EXCEEDS	86		95		68	
90 PERCENT EXCEEDS	50		54		22	

* See REMARKS.
e Estimated



0351706800 CHEOAH RIVER NEAR BEARPEN GAP NEAR TAPOCO, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1999 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1999 to current year.

INSTRUMENTATION.--Temperature probe since October 1999. Satellite telemetry at station.

REMARKS.--Records good. Station operated in cooperation with Tapoco, Inc.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum recorded, 30.0°C, July 30, 2002; minimum recorded, 0°C, periodically in winter months.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 28.2°C, Aug. 21; minimum recorded, 0.0°C, Jan. 24.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	20.0	16.8	18.5	17.8	16.2	17.1	14.0	11.0	12.9	8.6	7.2	8.0
2	19.6	17.2	18.5	18.8	16.8	17.8	11.3	8.0	8.9	9.1	8.0	8.5
3	19.6	17.7	18.4	18.1	17.2	17.7	8.1	6.8	7.4	10.2	8.4	9.3
4	18.9	15.6	17.2	17.4	15.0	16.8	7.5	6.1	6.8	11.2	9.8	10.4
5	18.4	14.9	16.6	15.0	11.5	13.3	8.1	5.9	6.9	11.3	9.7	10.6
6	17.9	14.3	16.1	11.5	9.7	10.8	13.2	8.1	9.5	12.2	11.1	11.6
7	18.4	14.9	16.5	11.7	9.4	10.7	13.8	13.2	13.5	11.1	9.6	10.0
8	18.0	15.2	16.6	12.2	10.4	11.2	13.4	12.5	13.0	11.5	9.9	10.8
9	17.4	16.0	16.7	10.5	8.7	9.7	13.3	12.1	12.7	9.9	8.3	9.0
10	19.1	16.1	17.5	10.4	8.4	9.4	13.3	12.1	12.6	9.4	7.6	8.6
11	20.0	16.9	18.4	11.2	9.0	9.8	12.6	10.9	11.8	10.6	8.5	9.4
12	18.6	17.3	17.9	12.7	11.2	12.0	10.9	9.0	9.8	12.4	10.4	11.4
13	17.9	16.6	17.2	12.4	10.8	11.8	11.1	9.8	10.4	13.1	11.6	12.2
14	16.6	15.1	15.8	10.8	9.2	10.0	9.8	8.1	9.2	12.0	7.8	9.9
15	15.1	12.6	13.8	9.6	8.0	9.0	8.6	5.6	7.6	7.8	6.4	7.3
16	14.1	11.6	12.6	9.3	7.8	8.6	5.6	4.1	4.9	7.4	5.1	6.6
17	13.6	10.3	12.1	10.6	8.4	9.6	6.3	4.8	5.5	5.1	1.7	3.0
18	15.4	12.7	13.9	11.7	9.5	10.7	5.7	4.4	5.2	1.7	0.4	1.2
19	15.7	15.0	15.3	13.2	11.5	12.4	5.6	3.0	5.0	2.7	1.2	1.9
20	17.7	15.1	16.1	13.6	12.8	13.2	3.0	0.9	1.8	5.0	2.4	3.7
21	18.3	16.0	16.9	13.1	12.3	12.8	4.5	1.9	3.2	7.2	5.0	6.1
22	17.6	15.3	16.5	14.3	12.3	13.3	7.4	4.2	5.5	7.1	4.3	6.2
23	16.7	15.4	16.1	14.0	13.6	13.7	8.0	4.7	6.8	4.3	0.4	1.7
24	17.3	15.5	16.2	14.1	13.6	13.8	4.7	3.2	3.9	1.2	0.0	0.5
25	17.3	15.1	16.0	13.6	8.8	11.0	3.5	2.2	3.0	3.5	1.2	2.4
26	16.6	13.9	15.4	8.8	7.6	8.3	3.6	2.6	3.2	6.1	3.5	4.8
27	17.7	15.6	16.6	9.2	7.2	8.1	3.4	2.5	3.0	6.1	4.9	5.4
28	19.4	16.8	18.0	9.8	8.5	9.3	3.9	2.2	3.1	5.4	4.1	4.7
29	19.1	17.8	18.3	9.7	7.9	8.8	5.5	2.8	4.0	4.7	3.2	4.1
30	19.2	16.8	17.9	11.0	8.9	9.6	7.5	5.5	6.5	5.3	4.5	4.9
31	18.9	16.9	17.8	---	---	---	8.5	6.8	7.7	6.6	5.0	5.8
MONTH	20.0	10.3	16.5	18.8	7.2	11.7	14.0	0.9	7.3	13.1	0.0	6.8

0351706800 CHEOAH RIVER NEAR BEARPEN GAP NEAR TAPOCO, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.2	6.0	6.5	6.4	3.8	5.0	14.0	11.8	12.8	16.1	11.6	13.6
2	6.7	5.6	6.1	5.6	2.5	4.0	13.1	8.5	10.0	14.5	10.2	12.4
3	6.4	6.0	6.2	6.1	2.8	4.4	12.0	7.8	9.6	15.3	9.8	12.4
4	6.9	5.2	6.0	7.0	3.3	5.3	12.9	8.2	10.5	15.1	9.7	12.3
5	6.3	4.1	5.4	8.9	6.3	7.4	14.5	9.6	11.9	12.8	11.2	11.7
6	7.2	4.6	6.0	9.5	5.9	7.7	14.8	11.2	13.0	16.9	11.3	13.6
7	8.0	5.9	6.9	8.4	5.6	7.2	14.8	12.8	13.6	17.7	11.9	14.7
8	8.8	7.9	8.3	8.4	5.2	6.8	15.3	12.5	13.8	18.5	12.8	15.6
9	9.8	8.5	9.1	6.8	4.0	5.4	17.5	12.6	14.9	19.3	14.3	16.7
10	9.3	4.6	6.9	8.1	5.0	6.6	18.2	13.2	15.6	17.1	15.1	15.7
11	4.9	2.8	4.0	7.4	5.9	6.6	17.1	14.0	15.7	20.4	14.3	16.9
12	5.9	2.8	4.4	10.0	5.5	7.6	15.9	14.2	14.8	21.5	15.7	18.4
13	6.1	4.6	5.2	12.6	8.4	10.4	14.6	13.2	13.8	20.2	16.8	18.6
14	7.6	6.1	6.8	11.0	8.5	9.7	16.1	11.6	13.6	19.2	17.4	18.3
15	9.2	6.7	7.9	9.5	6.4	8.1	16.0	10.6	13.3	17.9	15.9	17.1
16	9.4	8.5	8.9	8.4	7.2	7.6	16.1	11.2	13.6	19.2	13.7	16.3
17	8.5	5.8	7.3	7.2	6.6	6.9	15.9	10.5	13.2	20.1	13.8	16.8
18	6.3	3.8	5.1	9.8	6.1	7.7	17.1	11.4	14.2	20.0	15.2	17.5
19	6.1	3.6	5.1	8.6	6.1	7.6	17.1	12.6	15.0	21.4	16.1	18.6
20	6.5	5.7	6.1	11.7	7.5	9.4	18.4	13.2	15.7	19.0	14.8	16.1
21	8.6	6.5	7.7	10.7	7.7	9.4	16.3	13.4	14.9	18.9	14.2	16.2
22	11.0	8.4	9.5	10.2	8.2	9.4	15.5	13.8	14.7	18.8	15.1	16.9
23	10.3	7.8	9.2	12.0	9.7	10.7	14.8	11.2	13.1	19.5	16.4	17.8
24	10.6	9.2	9.7	13.1	9.5	11.1	11.2	8.7	9.8	18.4	15.3	16.7
25	9.7	7.4	8.5	14.1	9.5	11.7	13.7	7.9	10.6	17.5	13.3	15.4
26	8.5	5.4	7.1	14.6	10.6	12.5	12.2	9.8	11.1	19.2	13.0	15.9
27	7.4	6.2	6.9	14.4	12.4	13.3	12.4	9.7	11.1	20.4	14.5	17.2
28	7.4	6.4	6.9	13.3	9.6	11.2	11.2	9.1	10.4	19.7	15.3	17.3
29	---	---	---	13.4	9.0	11.0	13.6	10.5	11.9	17.0	14.3	15.2
30	---	---	---	14.6	9.6	12.1	14.6	13.0	13.7	17.3	14.5	15.6
31	---	---	---	13.7	12.1	12.7	---	---	---	18.8	15.1	16.9
MONTH	11.0	2.8	6.9	14.6	2.5	8.6	18.4	7.8	13.0	21.5	9.7	15.9
		JUNE			JULY			AUGUST			SEPTEMBER	
1	17.7	16.3	16.9	26.2	21.8	23.7	25.3	20.8	22.8	25.2	20.5	22.6
2	18.4	15.5	16.8	25.5	20.8	22.9	26.2	21.1	23.3	25.3	21.6	23.3
3	17.8	16.5	17.1	23.2	21.2	21.9	26.2	21.0	23.5	25.5	21.9	23.5
4	22.1	16.2	18.8	23.9	20.2	22.0	26.8	21.4	23.9	24.7	20.6	22.6
5	22.7	17.8	20.2	24.8	20.5	22.6	24.8	21.6	23.2	24.8	21.0	22.7
6	24.5	18.7	20.9	22.7	20.8	21.5	25.2	21.1	22.9	24.3	20.6	22.4
7	21.2	17.5	19.2	20.8	18.0	18.9	23.0	20.3	21.4	24.4	20.3	22.1
8	19.8	17.7	18.7	22.0	17.3	19.3	22.4	19.9	20.9	24.5	20.3	22.3
9	20.2	17.4	18.6	22.0	18.0	19.9	24.2	20.3	22.2	24.5	20.5	22.3
10	21.3	18.0	19.4	21.8	19.3	20.4	26.4	21.3	23.5	24.3	20.2	22.1
11	19.7	18.3	19.0	21.2	19.7	20.3	26.9	21.7	23.9	24.5	20.7	22.4
12	19.3	18.5	18.9	21.1	19.0	20.0	26.9	21.6	24.0	24.4	20.7	22.5
13	21.1	18.1	19.2	20.3	19.2	19.7	26.1	22.2	23.8	24.4	20.7	22.5
14	23.3	18.1	20.3	20.2	19.0	19.6	26.0	21.2	23.3	24.2	20.6	22.4
15	24.2	19.2	21.3	21.9	19.0	20.3	27.3	21.9	24.3	25.1	21.3	23.1
16	23.1	18.4	20.6	22.5	20.0	21.1	27.6	22.5	24.8	23.5	21.9	22.6
17	23.0	18.0	20.3	24.0	20.2	21.7	27.4	23.3	25.1	25.7	21.5	23.4
18	21.4	16.7	19.1	24.0	20.2	21.9	27.7	23.0	24.7	24.9	22.1	23.4
19	21.4	17.2	19.3	24.0	20.7	21.9	26.3	22.1	23.9	24.0	20.2	22.1
20	20.1	16.9	18.3	25.4	19.8	22.2	27.9	22.8	25.0	24.3	20.8	22.6
21	20.7	16.0	18.0	26.0	21.3	23.4	28.2	23.6	25.7	24.7	21.1	22.9
22	22.1	17.3	19.5	25.9	21.9	23.6	27.2	23.6	25.2	24.9	21.5	23.2
23	24.1	18.2	20.9	26.8	21.5	23.9	26.0	23.3	24.4	24.6	21.6	23.1
24	24.6	19.2	21.8	26.3	21.6	23.9	27.9	22.6	25.0	24.5	21.3	23.0
25	24.8	20.0	22.3	27.5	22.0	24.5	25.6	23.3	24.2	25.0	22.1	23.2
26	22.9	20.7	21.7	28.0	22.8	25.2	24.7	21.7	23.1	23.0	21.8	22.3
27	25.2	20.0	22.3	28.0	23.1	25.3	24.6	21.9	23.2	24.1	20.9	22.3
28	23.4	20.3	22.0	25.6	21.1	23.5	25.0	21.6	23.3	23.0	20.7	22.0
29	25.0	19.7	22.1	23.2	20.5	21.6	23.8	21.9	22.9	22.4	19.7	21.3
30	26.4	21.2	23.5	23.8	20.7	22.1	23.0	21.5	22.3	21.1	17.9	19.6
31	---	---	---	24.5	21.0	22.6	25.6	21.2	22.9	---	---	---
MONTH	26.4	15.5	19.9	28.0	17.3	22.0	28.2	19.9	23.6	25.7	17.9	22.5

03548330 BRASSTOWN CREEK NEAR BRASSTOWN, NC

LOCATION.--Lat 35°02'24", long 83°57'33", Clay County, Hydrologic Unit 06020002, on right bank 20 ft upstream from bridge on Secondary Road 1134, 0.1 mi northwest of Brasstown, and 0.8 mi above mouth.

DRAINAGE AREA.--83.1 mi^2.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1944, 1947, 1953-55, 1960-64, 1988. July 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,581.70 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Minimum discharge for period of record also occurred Sept. 20, 2000. Minimum discharge for current water year also occurred Sept. 26.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	97	84	200	122	109	214	290	182	132	172	178	119
2	92	122	155	120	117	188	420	161	159	179	142	106
3	92	685	143	119	163	176	326	152	126	128	124	99
4	87	537	134	117	133	166	272	146	118	189	122	93
5	83	274	128	116	123	162	241	145	113	152	121	88
6	80	182	1,340	122	118	153	219	145	148	129	115	85
7	78	146	1,010	117	115	158	258	138	159	441	225	83
8	76	128	416	120	113	330	299	134	140	244	275	81
9	75	115	453	114	113	208	254	131	139	170	201	79
10	75	108	395	112	111	187	226	129	123	144	179	77
11	74	108	348	111	106	174	211	127	119	283	161	74
12	74	350	275	110	105	164	208	123	468	635	139	73
13	97	207	235	188	110	156	235	129	533	309	142	72
14	81	158	204	403	192	172	236	122	264	277	139	71
15	77	138	186	191	147	153	202	145	188	266	123	69
16	73	128	174	160	136	190	188	133	155	198	115	79
17	71	120	166	143	127	194	180	124	137	173	110	78
18	71	115	159	132	120	178	175	120	130	156	172	72
19	119	110	153	128	116	166	170	117	136	144	150	69
20	98	107	144	126	150	158	165	264	137	140	110	68
21	83	104	140	124	1,460	152	161	184	138	131	101	66
22	79	104	139	120	677	181	171	144	120	125	99	65
23	75	122	209	114	334	389	171	133	112	119	97	65
24	76	669	169	111	315	252	160	125	107	114	124	63
25	74	408	154	113	241	216	153	118	103	110	118	61
26	72	241	145	113	208	194	155	114	103	107	97	70
27	71	192	137	109	190	199	165	111	112	103	93	75
28	77	174	133	104	251	335	150	110	162	103	89	67
29	84	151	130	119	---	253	149	109	149	337	95	67
30	78	140	128	128	---	220	234	116	146	200	280	67
31	92	---	125	114	---	329	---	111	---	174	158	---
TOTAL	2,531	6,227	8,027	4,140	6,200	6,367	6,444	4,242	4,876	6,152	4,394	2,301
MEAN	81.6	208	259	134	221	205	215	137	163	198	142	76.7
MAX	119	685	1,340	403	1,460	389	420	264	533	635	280	119
MIN	71	84	125	104	105	152	149	109	103	103	89	61
CFSM	0.98	2.50	3.12	1.61	2.66	2.47	2.58	1.65	1.96	2.39	1.71	0.92
IN.	1.13	2.79	3.59	1.85	2.78	2.85	2.88	1.90	2.18	2.75	1.97	1.03

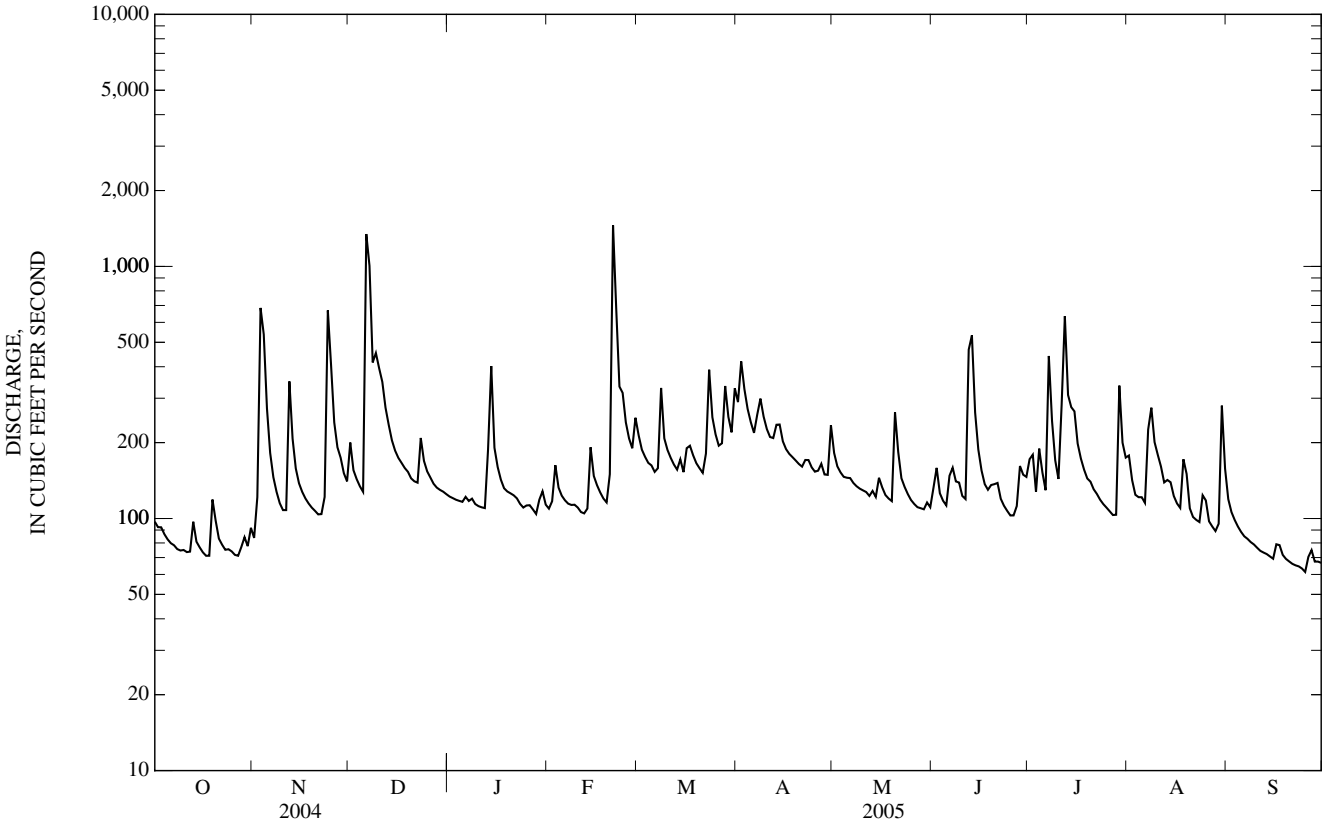
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2005, BY WATER YEAR (WY)

MEAN	57.1	103	120	119	151	146	145	169	112	106	70.8	93.9
MAX	81.6	208	259	150	221	205	215	403	163	198	142	226
(WY)	(2005)	(2005)	(2005)	(2002)	(2005)	(2005)	(2005)	(2003)	(2005)	(2005)	(2005)	(2004)
MIN	27.2	41.2	46.8	94.5	98.2	113	88.1	60.3	61.2	47.9	33.1	30.7
(WY)	(2001)	(2002)	(2001)	(2001)	(2002)	(2004)	(2001)	(2001)	(2002)	(2000)	(2000)	(2000)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1999 - 2005	
ANNUAL TOTAL	49,042		61,901			
ANNUAL MEAN	134		170		118	
HIGHEST ANNUAL MEAN					170	2005
LOWEST ANNUAL MEAN					72.5	2001
HIGHEST DAILY MEAN	2,430	Sep 17	1,460	Feb 21	2,540	May 7, 2003
LOWEST DAILY MEAN	33	Apr 12	61	Sep 25	18	Sep 16, 2000
ANNUAL SEVEN-DAY MINIMUM	45	Aug 14	65	Sep 19	19	Sep 14, 2000
MAXIMUM PEAK FLOW			4,350	Dec 6	4,570	May 7, 2003
MAXIMUM PEAK STAGE			14.55	Dec 6	14.94	May 7, 2003
INSTANTANEOUS LOW FLOW			58*	Sep 25	17*	Sep 16, 2000
ANNUAL RUNOFF (CFSM)	1.61		2.04		1.42	
ANNUAL RUNOFF (INCHES)	21.95		27.71		19.36	
10 PERCENT EXCEEDS	202		273		194	
50 PERCENT EXCEEDS	92		136		92	
90 PERCENT EXCEEDS	57		78		43	

* See REMARKS.

03548330 BRASSTOWN CREEK NEAR BRASSTOWN, NC—Continued



03550000 VALLEY RIVER AT TOMOTLA, NC

LOCATION.--Lat 35°08'20", long 83°58'50", Cherokee County, Hydrologic Unit 06020002, on right bank at site of former bridge on Secondary Road 1473 at Tomotla, 600 ft upstream from bridge on U.S. Highways 19 and 74, 0.2 mi upstream from Rogers Creek, 4.7 mi northeast of Murphy, and at mile 6.6.

DRAINAGE AREA.--104 mi^2.

PERIOD OF RECORD.--June 1904 to December 1909, January 1914 to April 1917, October 1918 to current year.

REVISED RECORDS.--WSP 503: 1905-9, 1915-17. WSP 823: Drainage area. WSP 1306: 1917(M), 1920(M), 1922(M), 1925(M), 1930(M), 1933(M). WSP 1626: 1907(M). WDR NC-97-1: 1979-1994(M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,556.46 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Prior to May 11, 1934, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Maximum discharge for period of record, from flood profile by Tennessee Valley Authority, from rating curve extended above 5,800 ft^3/s on basis of slope-conveyance study. Minimum discharge for period of record occurred several days in Aug. and Sept. 1925. Minimum discharge for current water year also occurred Sept. 26.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of September 1898 reached a stage of 21.2 ft, from floodmark by Tennessee Valley Authority; discharge, about 20,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	103	78	714	229	202	380	401	331	197	139	157	169
2	100	123	554	222	216	343	853	297	232	144	165	146
3	97	327	450	217	342	322	747	276	195	150	172	132
4	92	526	386	212	295	304	626	258	180	142	189	121
5	88	335	340	207	267	296	527	252	167	134	156	115
6	85	226	1,120	217	247	278	459	244	333	124	148	110
7	83	184	1,750	208	233	293	454	230	401	419	193	105
8	81	159	1,110	269	227	731	488	219	241	244	194	102
9	79	142	1,180	236	221	523	426	211	207	182	170	97
10	79	133	1,240	222	218	439	391	216	187	212	170	94
11	77	137	969	215	203	392	364	208	180	262	141	91
12	78	471	757	209	197	355	360	197	274	386	129	88
13	124	390	634	255	210	330	396	191	446	600	228	85
14	89	279	530	496	390	329	364	185	319	565	258	83
15	86	230	459	349	348	299	334	199	254	414	173	81
16	81	201	415	306	349	345	313	186	217	320	160	135
17	77	182	382	273	316	409	298	175	194	276	169	109
18	76	168	354	251	288	376	288	167	261	237	183	90
19	137	158	333	242	268	348	276	162	273	209	195	83
20	113	152	309	233	319	326	265	685	243	198	193	79
21	92	142	295	228	1,080	306	256	451	233	224	167	72
22	86	138	287	220	1,000	333	287	322	197	200	144	66
23	82	335	396	208	646	614	323	274	175	172	157	65
24	87	2,060	334	196	563	493	273	243	161	155	139	63
25	83	1,580	307	197	459	426	257	222	153	146	150	61
26	79	831	290	197	403	380	267	207	157	137	134	87
27	78	579	273	188	366	361	281	195	144	130	125	103
28	77	486	259	181	411	521	253	188	142	127	120	76
29	93	395	250	215	---	452	250	181	148	159	119	74
30	84	367	244	241	---	411	367	182	158	190	340	72
31	81	---	235	211	---	428	---	173	---	153	225	---
TOTAL	2,747	11,514	17,156	7,350	10,284	12,143	11,444	7,527	6,669	7,150	5,363	2,854
MEAN	88.6	384	553	237	367	392	381	243	222	231	173	95.1
MAX	137	2,060	1,750	496	1,080	731	853	685	446	600	340	169
MIN	76	78	235	181	197	278	250	162	142	124	119	61
CFSM	0.85	3.69	5.32	2.28	3.53	3.77	3.67	2.33	2.14	2.22	1.66	0.91
IN.	0.98	4.12	6.14	2.63	3.68	4.34	4.09	2.69	2.39	2.56	1.92	1.02

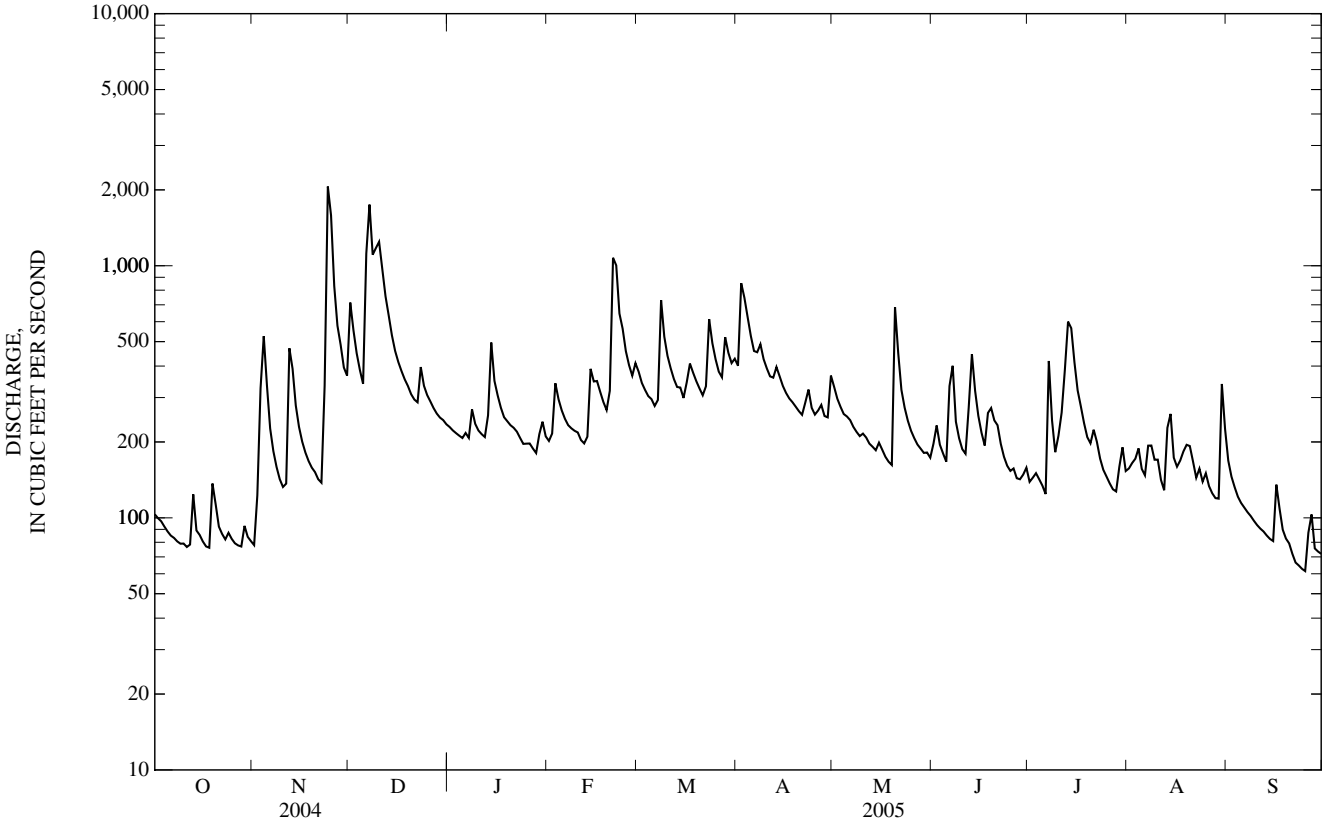
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 2005, @BY WATER YEAR (WY)

MEAN	98.8	162	291	393	451	455	365	264	191	170	136	104
MAX	442	685	1,045	936	1,022	1,379	835	755	607	443	563	434
(WY)	(1907)	(1930)	(1933)	(1974)	(1957)	(1917)	(1936)	(1929)	(1989)	(1949)	(1920)	(1928)
MIN	25.2	38.6	57.4	69.9	92.7	155	135	88.9	44.8	42.4	24.6	21.3
(WY)	(1955)	(1934)	(1934)	(1981)	(1941)	(1988)	(1986)	(1941)	(1988)	(1988)	(1925)	(1925)

03550000 VALLEY RIVER AT TOMOTLA, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1904 - 2005[@]	
ANNUAL TOTAL	91,123		102,201			
ANNUAL MEAN	249		280		256	
HIGHEST ANNUAL MEAN					379	1922
LOWEST ANNUAL MEAN					111	1988
HIGHEST DAILY MEAN	2,060	Nov 24	2,060	Nov 24	8,190	Feb 16, 1995
LOWEST DAILY MEAN	60	Sep 6	61	Sep 25	12	Aug 27, 1925
ANNUAL SEVEN-DAY MINIMUM	68	Aug 31	70	Sep 19	13	Aug 24, 1925
MAXIMUM PEAK FLOW			3,440	Nov 24	18,000*	Nov 19, 1906
MAXIMUM PEAK STAGE			9.50	Nov 24	20.50	Nov 19, 1906
INSTANTANEOUS LOW FLOW			58*	Sep 25	12*	Aug 27, 1925
ANNUAL RUNOFF (CFSM)	2.39		2.69		2.46	
ANNUAL RUNOFF (INCHES)	32.59		36.56		33.44	
10 PERCENT EXCEEDS	416		464		496	
50 PERCENT EXCEEDS	192		222		179	
90 PERCENT EXCEEDS	84		88		60	

[@] See PERIOD OF RECORD.
* See REMARKS.



LAKES AND RESERVOIRS IN OHIO RIVER BASIN

03514500 FONTANA LAKE

LOCATION.--Lat 35°27'07", long 83°48'18", Graham County, Hydrologic Unit 06010202, at Fontana Dam on Little Tennessee River, 9.6 mi upstream from Cheoah Dam, 5.7 mi upstream from Twenty Mile Creek, 9.0 mi north of Robbinsville, and at river mile 61.0.

DRAINAGE AREA.--1,571 mi^2.

PERIOD OF RECORD.--October 1944 to current year. Prior to November 1944, monthend content only, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by gravity, nonoverflow-type concrete dam. Spillway is equipped with four radial gates 35 ft high by 35 ft wide. Filling began Nov. 7, 1944; dam completed March 1945; water in reservoir first reached minimum pool elevation Jan. 16, 1945. Total capacity (based on 1967 resurvey) is 727,500 ft^3/s-day, at 1,710.0 ft (top of gate) of which 476,900 ft^3/s-day is controlled storage above 1,580.0 ft, normal minimum pool elevation. Reservoir is used for navigation, flood control, and power. New capacity table put into use Jan. 1, 1971.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum content observed: 728,600 ft^3/s-day, May 28, 1973; elevation, 1,710.20 ft. Minimum content observed (after first filling): 78,300 ft^3/s-day, Jan. 29, 1955; elevation, 1,472.0 ft.

EXTREMES FOR CURRENT YEAR.--Maximum content observed: 710,200 ft^3/s-day, June 15; elevation, 1,706.76 ft. Minimum content observed: 449,800 ft^3/s-day, Jan. 30; elevation, 1,648.04 ft.

03546500 CHATUGE LAKE

LOCATION.--Lat 35°01'04", long 83°47'27", Clay County, Hydrologic Unit 06020002, at Chatuge Dam on Hiwassee River, 2.0 mi upstream from Hyatt Mill Creek, 2.5 mi downstream from Georgia-North Carolina Stateline, 2.4 mi southeast of Hayesville, and at river mile 121.0.

DRAINAGE AREA.--189 mi^2.

PERIOD OF RECORD.--February 1942 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level. Prior to Aug. 4, 1942, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed by a rolled, earthfill dam with side-channel spillway equipped with flashboards. Dam completed and filling began Feb. 12, 1942; water in reservoir first reached minimum pool elevation Feb. 26, 1942. Total capacity (based on 1965 resurvey) is 121,200 ft^3/s-day, at 1,928.0 ft (top of flashboard), of which 61,700 ft^3/s-day is controlled storage above 1,905.0 ft, normal minimum pool elevation. Reservoir is used for navigation, flood control, and power. New capacity table put into use Jan. 1, 1971.

COOPERATION--Records furnished by Tennessee Valley Authority. (See station 03548500.)

EXTREMES FOR PERIOD OF RECORD.--Maximum content observed: 124,200 ft^3/s-day, Apr. 20, 1943; elevation, 1,927.80 ft. Minimum content observed (after first filling): 9,400 ft^3/s-day, Sept. 5, 1947, and Jan. 27, 1956; elevation, 1,860.11 ft, Sept. 5, 1947.

EXTREMES FOR CURRENT YEAR.--Maximum content observed: 118,000 ft^3/s-day, June 14; elevation, 1,927.08 ft. Minimum content observed: 85,800 ft^3/s-day, Feb. 18; elevation, 1,916.56 ft.

03554500 HIWASSEE LAKE

LOCATION.--Lat 35°09'01", long 84°10'40", Cherokee County, Hydrologic Unit 06020002, at Hiwassee Dam on Hiwassee River, 3.9 mi upstream from Shoal Creek, 0.3 mi northwest of village of Hiwassee Dam, and at river mile 75.8.

DRAINAGE AREA.--968 mi^2.

PERIOD OF RECORD.--September 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 0.63 ft below sea level.

REMARKS--Reservoir is formed by gravity overflow concrete dam with seven taintor gates 23 ft high by 32 ft wide. Slight filling began Apr. 13, 1939, during construction; systematic filling operation began Jan. 14, 1940; dam completed February 1940; water in reservoir and first reached minimum pool elevation Feb. 23, 1940. Total capacity (based on 1965 resurvey) is 218,800 ft^3/s-day at 1,526.5 ft (top of gate), of which 154,300 ft^3/s-day is controlled storage above 1,450.0 ft, normal minimum pool elevation. Reservoir is used for navigation, floodcontrol, and power. New capacity table put into use Jan. 1, 1971.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum content observed: 223,400 ft^3/s-day, May 28, 1973; elevation, 1,528.02 ft. Minimum content observed (after first filling): 35,800 ft^3/s-day, Jan. 28, 1948; elevation, 1,413.41 ft.

EXTREMES FOR CURRENT YEAR.--Maximum content observed: 211,800 ft^3/s-day, June 21; elevation, 1,524.35 ft. Minimum content observed: 104,600 ft^3/s-day, Feb. 14; elevation, 1,478.99 ft.

LAKES AND RESERVOIRS IN OHIO RIVER BASIN--Continued

OTHER RESERVOIRS

The following reservoirs in the Tennessee River basin are described below. Records of content are not published herein.

03447832 LAKE JULIAN

LOCATION.--Lat 35°28'37", long 82°32'51", Buncombe County, Hydrologic Unit 06010105, on Powell Creek near Skyland.

DRAINAGE AREA.--4.78 mi^2.

PERIOD OF RECORD.--Prior to November 1967 published as Asheville Steam-Electric Generating Plant Lake.

REMARKS.--Total capacity is 4,540 ft^3/s-day, of which 2,120 ft^3/s-day is controlled storage. Filling began Mar. 27, 1963, and lake reached spillway elevation, 2,160 ft, June 3, 1963. Most of initial storage and occasional, supplemental storage provided by pumped diversion from French Broad River. Lake is a cooling-water reservoir for Carolina Power and Light Co. plant.

03448959 BURNETT LAKE

LOCATION.--Lat 35°39'41", long 82°20'45", Buncombe County, Hydrologic Unit 06010105, on North Fork Swannanoa River near Black Mountain.

DRAINAGE AREA.--22 mi^2.

REMARKS.--Total capacity at crest of spillway is 11,600 ft^3/s-day, of which 8,900 ft^3/s-day is controlled storage. Filling began Jan. 28, 1954. Lake is part of Asheville's municipal water supply. (See station 03451000.)

03450134 BEETREE RESERVOIR

LOCATION.--Lat 35°38'28", long 82°24'04", Buncombe County, Hydrologic Unit 06010105, on Beetree Creek near Swannanoa.

DRAINAGE AREA.-7.62 mi^2.

REMARKS.--Total capacity is 844 ft^3/s-day, of which 823 ft^3/s-day is controlled storage. Dam completed December 1926, and filling began Jan. 11, 1927; water in reservoir first reached maximum pool elevation Mar. 8, 1927. Lake is part of Asheville's municipal water supply. (See station 03451000.)

03455773 LAKE LOGAN

LOCATION.--Lat 35°25'17", long 82°55'29", Haywood County, Hydrologic Unit 06010106, on West Fork Pigeon River near Canton and at river mile 7.0.

DRAINAGE AREA.--33.3 mi^2.

REMARKS.--Total capacity is 1,040 ft^3/s-day (top of flashboards), all of which is usable. Filling began November 1931. (See station 0345577330.)

03458319 LAKE JUNALUSKA

LOCATION.--Lat 35°31'39", long 82°57'49", Haywood County, Hydrologic Unit 06010106, on Richland Creek at Lake Junaluska and at river mile 2.4.

DRAINAGE AREA.--63.6 mi^2.

REMARKS.--Total surface area is about 195 acres. The lake reached spillway elevation in the spring of 1913.

03460242 WATERVILLE LAKE

LOCATION.--Lat 35°41'41", long 83°03'02", Haywood County, Hydrologic Unit 06010106, at Waterville Dam on Pigeon River, 0.1 mi downstream from Cataloochee Creek, 5.5 mi southeast of Mount Sterling, and at river mile 38.0.

DRAINAGE AREA.--455 mi^2.

PERIOD OF RECORD.--October 1961 to current year. Prior to October 1979, published as Lake Walters.

REMARKS.--Reservoir is formed by a single-arch, variable-radius, concrete dam with 14 taintor gates 10 ft high by 24 ft wide. Dam was completed in 1929 and filling began October 1929; water in reservoir first reached minimum pool elevation November 1929. Total capacity is 12,800 ft^3/s-day at 2,258.60 ft (top of gate), of which 10,400 ft^3/s-day is controlled storage above 2,175 ft, normal minimum pool elevation. Reservoir is used for power. Prior to Jan. 1, 1971, records furnished by Carolina Power and Light Co. New capacity table was put into use Jan. 1, 1971.

03500466 SEQUOYAH LAKE

LOCATION.--Lat 35°04'02", long 83°13'31", Macon County, Hydrologic Unit 06010202, on Cullasaja River near Highlands, and at river mile 18.4.

DRAINAGE AREA.--14.4 mi^2.

REMARKS.--Total capacity is 233 ft^3/s-day (at crest of spillway), of which approximately 116 ft^3/s-day is usable. Filling began in 1926.

LAKES AND RESERVOIRS IN OHIO RIVER BASIN-Continued

03504500 NANTAHALA LAKE

LOCATION.--Lat 35°11'58", long 83°39'05", Macon County, Hydrologic Unit 06010202, at Nantahala Dam on Nantahala River, 5.5 mi upstream from Whiteoak Creek, 4.2 mi southeast of Topton, and at river mile 22.8.

DRAINAGE AREA.--91.0 mi^2.

PERIOD OF RECORD.--January 1942 to September 1995. Prior to October 1944 monthend content only, published in WSP 1306.

REMARKS.--Reservoir is formed by rockfill dam with side-channel, gate-controlled spillway supplemented by fuse-plug dam. Dam completed and filling began Jan. 30, 1942; water in reservoir first reached minimum pool elevation Feb. 16, 1942. Total capacity (based on 1969 resurvey) is 69,200 ft^3/s-day at 2,890.0 ft (top of gates), of which 63,500 ft^3/s-day is controlled storage above 2,758.84 ft, normal minimum pool elevations. Reservoir is used for flood control and power. New capacity table put into use Jan. 1, 1971.

03507111; 03507131 EAST FORK LAKE AND WOLF CREEK LAKE

These two reservoirs are operated as a unit for storage of water for the Tennessee Creek Project.

EAST FORK DAM

LOCATION.--Lat 35°12'49", long 83°00'07", Jackson County, Hydrologic Unit 06010203, on Tuckasegee River near Tuckasegee.

DRAINAGE AREA.--25.1 mi^2.

REMARKS.--Total capacity of East Fork Lake is 671 ft^3/s-day, of which 625 ft^3/s-day is controlled storage. Filling began April 18, 1955.

WOLF CREEK DAM

LOCATION.--Lat 35°13'18", long 83°00'00", Jackson County, Hydrologic Unit 06010203, on Wolf Creek near Tuckasegee.

DRAINAGE AREA.--15.2 mi^2.

REMARKS.--Total capacity of Wolf Creek Lake is 5,070 ft^3/s-day, of which 3,850 ft^3/s-day is controlled storage. Filling began Mar. 22, 1955.

03507216 BEAR CREEK LAKE

LOCATION.--Lat 35°14'27", long 83°04'23", Jackson County, Hydrologic Unit 06010203, on Tuckasegee River near Tuckasegee.

DRAINAGE AREA.--74.8 mi^2.

REMARKS.--Total capacity is 17,500 ft^3/s-day, of which 2,290 ft^3/s-day is controlled storage. Filling began Oct. 9, 1953.

03507289 CEDAR CLIFF LAKE

LOCATION.--Lat 35°15'12", long 83°05'58", Jackson County, Hydrologic Unit 06010203, on Tuckasegee River near Tuckasegee and at river mile 51.9.

DRAINAGE AREA.--80.3 mi^2.

REMARKS.--Total capacity is 3,200 ft^3/s-day, of which 350 ft^3/s-day is controlled storage. Filling began Apr. 26, 1952.

03507500 THORPE RESERVOIR

LOCATION.--Lat 35°11'46", long 83°09'10", Jackson County, Hydrologic Unit 06010203, at Thorpe Dam on West Fork Tuckasegee River, 3.0 mi upstream from Shoal Creek, and 2.3 mi northwest of Glenville, and at river mile 9.7.

DRAINAGE AREA.--36.7 mi^2.

PERIOD OF RECORD.--February 1941 to September 1995. Prior to October 1944 monthend content only, published in WSP 1306. Prior to October 1948, published as Glenville Reservoir.

REMARKS.--Reservoir is formed by earth and rock dam and six 40 ft fuse-plug dams with side-channel spillway equipped with two taintor gates 12 ft high by 25 ft wide. Dam completed and storage began Feb. 12, 1941. Water in reservoir first reached minimum pool elevation Mar. 15, 1941. Total capacity (based on 1969 resurvey) is 35,500 ft^3/s-day, at 3,100.0 ft (top of gate), of which 33,700 ft^3/s-day is controlled storage above 3,023.25 ft, normal minimum pool elevation. Reservoir is used for flood control and power. New capacity table put into use Jan. 1, 1971.

03515152 CHEOAH LAKE

LOCATION.--Lat 35°26'54", long 83°56'11", Graham County, Hydrologic Unit 06010202, on Little Tennessee River at Cheoah and at river mile 51.4.

DRAINAGE AREA.--1,608 mi^2.

REMARKS.--Total capacity is 17,700 ft^3/s-day, of which 920 ft^3/s-day is controlled storage. Filling began Dec. 8, 1918.

03516500 SANTEETLAH LAKE

LOCATION.--Lat 35°22'38", long 83°52'33", Graham County, Hydrologic Unit 06010204, at Santeetlah Dam on Cheoah River, 1.0 mi downstream from Santeetlah Creek, 5.5 mi northwest of Robbinsville, and at river mile 9.3.

DRAINAGE AREA.--176 mi^2.

PERIOD OF RECORD.--December 1927 to September 1995. Prior to October 1946 monthend content only, published in WSP 1306.

REMARKS.--Reservoir is formed by concrete gravity and arch dam with concrete spillway controlled by six taintor gates 12 ft high by 25 ft wide. Dam completed and filling began Dec. 7, 1927. Water in reservoir first reached minimum pool elevation December 1927. Total capacity (new capacity table put into use Jan. 1, 1971) is 78,800 ft^3/s-day (top of gate) at elevation 1,817.0 ft, of which 66,600 ft^3/s-day is controlled storage above 1,740.08 ft, normal minimum pool elevation. Reservoir is used for power.

LAKES AND RESERVOIRS IN OHIO RIVER BASIN--Continued

03555500 APPALACHIA LAKE

LOCATION.--Lat 35°10'04", long 84°17'49", Cherokee County, Hydrologic Unit 06020002, at Appalachia Dam on Hiwassee River, 9.8 mi downstream from Hiwassee Dam, 0.1 mi upstream from North Carolina-Tennessee State line, 1.5 mi northeast of Farner, Tennessee, and at river mile 66.0.

DRAINAGE AREA.--1,018 mi^2.

PERIOD OF RECORD.--February 1943 to September 1995.

REMARKS.--Reservoir is formed by concrete gravity dam. Spillway is equipped with 10 radial gates. Dam completed and filling began Feb. 14, 1943; water in reservoir first reached minimum pool elevation Feb. 21, 1943. Total capacity (based on 1965 resurvey) is 29,100 ft^3/s-day at 1,280.0 ft (top of gate), of which 4,400 ft^3/s-day is controlled storage above 1,272.0 ft, normal minimum pool elevation. Reservoir is used for navigation, flood control, and power. New capacity table put into use Jan. 1, 1971.

LAKES AND RESERVOIRS IN OHIO RIVER BASIN--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400 HOURS, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)
		03514500 Fontana Lake			03546500 Chatuge Lake	
Sept. 30	1,696.65	658,200	---	1,923.35	105,500	---
Oct. 31	1,683.83	597,100	-61,100	1,919.33	93,400	-12,100
Nov. 30	1,671.88	544,400	-52,700	1,920.24	96,000	2,600
Dec. 31	1,658.84	491,000	-53,400	1,919.04	92,600	-3,400
CAL YR 2004		---	35,800		---	15,100
Jan. 31	1,648.27	450,600	-40,400	1,917.66	88,700	-3,900
Feb. 28	1,656.67	482,500	31,900	1,918.27	90,400	1,700
Mar. 31	1,667.74	527,000	44,500	1,920.60	97,100	6,700
Apr. 30	1,690.49	628,200	101,200	1,924.41	108,900	11,800
May 31	1,703.20	691,500	63,300	1,925.98	114,200	5,300
June 30	1,703.49	693,100	1,600	1,925.41	112,200	-2,000
July 31	1,703.12	691,100	-2,000	1,925.37	112,100	-100
Aug. 31	1,700.95	679,900	-11,200	1,924.71	109,900	-2,200
Sept. 30	1,683.85	597,200	-82,700	1,921.09	98,600	-11,300
WTR YR 2005		---	-61,000		---	-6,900

Date	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)
		03554500 Hiwasee Lake	
Sep. 30	1,507.15	163,700	---
Oct. 31	1,498.05	141,700	-22,000
Nov. 30	1,497.61	140,700	-1,000
Dec. 31	1,487.81	120,300	-20,500
CAL YR 2004		---	26,600
Jan. 31	1,483.61	112,700	-7,600
Feb. 28	1,487.86	120,400	7,700
Mar. 31	1,496.48	138,200	17,800
Apr. 30	1,512.80	178,100	39,900
May 31	1,520.97	201,100	23,000
June 30	1,521.75	203,500	2,400
July 31	1,521.29	202,100	-1,400
Aug. 31	1,514.14	181,700	-20,400
Sept. 30	1,505.81	160,300	-21,400
WTR YR 2005		---	-3,400